BACTERIOLOGICAL RESULTS FOR MUNICIPAL TREATED WATER FOR 1991

ONTARIO MINISTRY OF THE ENVIRONMENT
SOUTHEAST REGION
MOE KINGSTON LABORATORY
JANUARY 1992

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ONTARIO MINISTRY OF THE ENVIRONMENT SOUTHEAST REGION

MOE KINGSTON LABORATORY

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JANUARY 1992

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ACKNOWLEDGEMENTS

The graphs were produced by LOTUS MACRO PROGRAMS written by

JIM LEY

Queen's University

Kingston, Ontario

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INTRODUCTION

This report reviews the 1991 results for the bacteriological analyses of drinking water samples, collected from municipal water treatment plants and distribution systems in the Ministry of the Environment, Southeast Region of Ontario (613 Telephone Area). All samples were analyzed by the Kingston MOE Regional Laboratory. Bacterial water quality results are presented as the percentages of monthly samples that meet safe, poor or unsafe criteria.

A SAFE water sample is defined as having 0 total coliforms and 0 fecal coliforms per 100 ml. POOR water contains 1 to 10 total coliforms and 0 fecal coliforms per 100 ml. UNSAFE water contains 11 or more total coliforms, or 1 or more fecal coliforms per 100 ml, or excessive levels of background bacteria that produce an interference with the total coliform test. A brief summary of these criteria is presented in the following table.

HOW TO INTERPRET A BACTERIOLOGICAL REPORT OF BACTERIAL DRINKING WATER QUALITY

	LIFORM COUNT R 100 ML		INTERPRETATION
TOTAL	FECAL	SAFE	THIS RESULT REPRESENTS A BACTERIOLOGICAL SAFE DRINKING
0	0		WATER SAMPLE
1 - 10	0	POOR	A REPEAT SAMPLE IS REQUIRED
11 +	1 +	UNSAFE	UNSUITABLE FOR DRINKING
O/G	O/G	UNSAFE	UNSUITABLE FOR DRINKING

INTERPRETATION of COLIFORM, COLIFORM BACKGROUND and HETEROTROPHIC (AEROBIC) BACTERIAL RESULTS for DRINKING WATER ANALYSES*

All water samples should be routinely analyzed for coliform bacteria and the general bacterial population. This general population can be estimated from either background colony counts on the total coliform membrane filters or heterotrophic plate counts (HPC) as outlined in Standard Methods for the Examination of Water and Wastewater. Excessive concentrations of the general bacterial populations can hinder the recovery of coliforms and thereby prevent the detection of a potential threat to public health.

The maximum acceptable concentration (MAC) for total coliforms is no organism detectable per 100 ml. Because coliforms are not uniformly distributed in water, and are subject to considerable variation in enumeration, drinking water that fulfils the following conditions is considered to be in compliance with the total coliform MAC:

1) No sample should contain more than 10 total coliform organisms per 100 ml, none of which should be fecal coliforms or $\underline{\text{E.coli}}$; 2) No consecutive samples from the same site should show the presence of coliform organisms; and

3) For community drinking water supplies:

a) not more than 10 per cent of the samples based on a minimum of 10 samples should show the presence of coliform organisms; and

b) not more than one sample from a set of samples taken from the community on a given day should show the presence of coliform organisms.

If any of the above criteria are exceeded, corrective action should be taken immediately, in consultation with the local control agency. The most common immediate actions include increasing chlorine dosage, flushing water mains, using an alternative source of water, and advising consumers to boil drinking water.

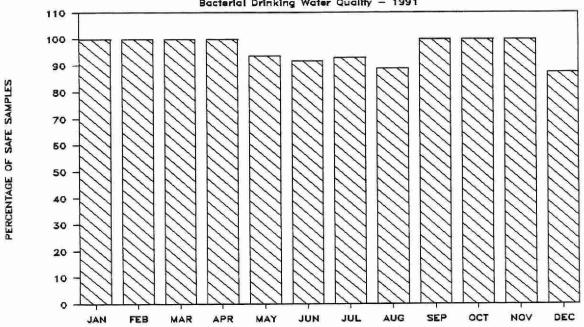
If up to 10 total coliform organisms per 100 ml are detected from a single sample, or if the sample contains more than either 200 background colonies per 100 ml on a total coliform membrane, the site should be resampled. If the presence of coliforms is reconfirmed (see 2, above), the cause should be determined and corrective action taken as appropriate. If there is a recurrence of unacceptable background or heterotrophic plate counts, an inspection of the system should be undertaken to determine the cause. If remedial action is deemed necessary, special samples should continue to be taken until consecutive samples comply with the guidelines.

* Guidelines for Canadian Drinking Water Quality, 4th Ed. National Health and Welfare (1989)

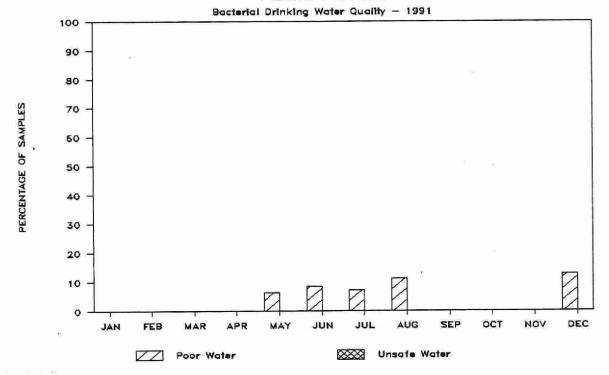
Kingston Regional Laboratory January 1992

ALEXANDRIA

Bacterial Drinking Water Quality - 1991



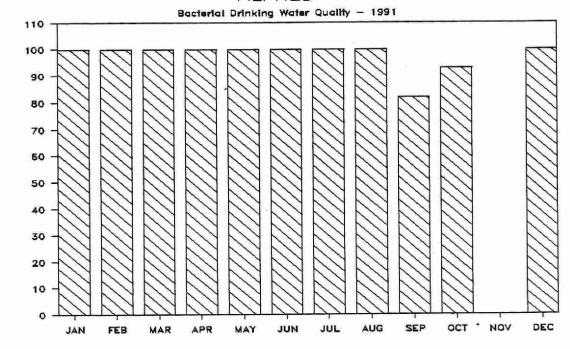
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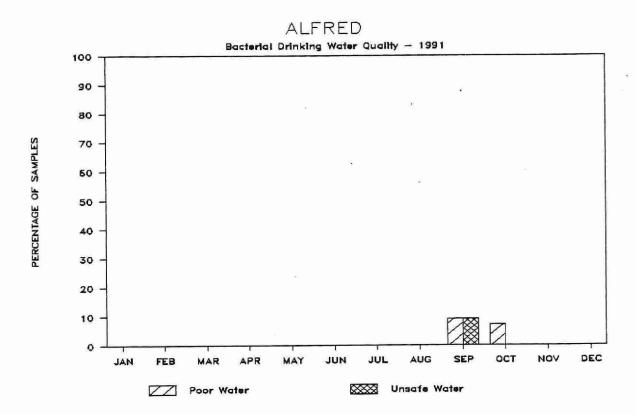
Number of samples submitted from ALEXANDRIA during 1991 for the analysis of treated water.

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ALFRED



PERCENTAGE OF SAFE SAMPLES

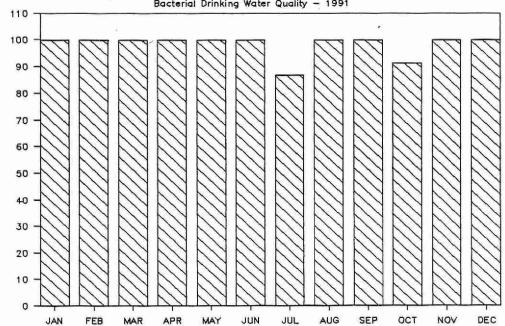


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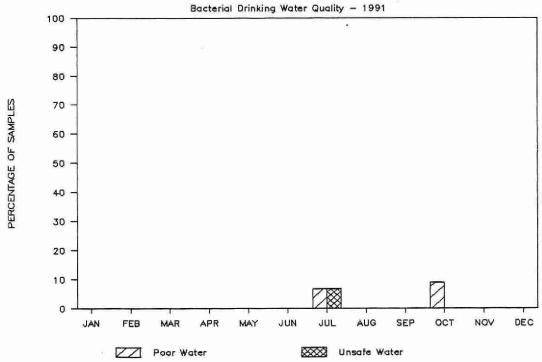
ALFRED TWP (LEFAIVRE)

Bacterial Drinking Water Quality - 1991



PERCENTAGE OF SAFE SAMPLES

ALFRED TWP (LEFAIVRE)

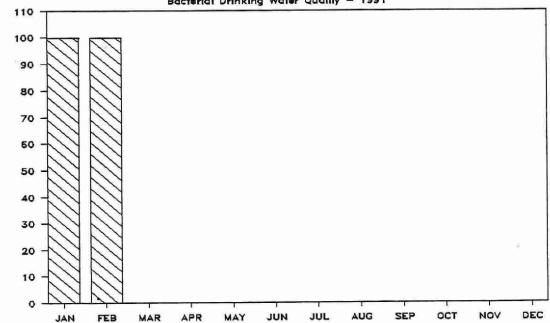


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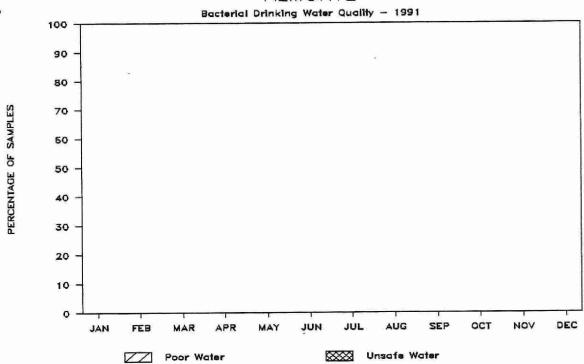
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PERCENTAGE OF SAFE SAMPLES

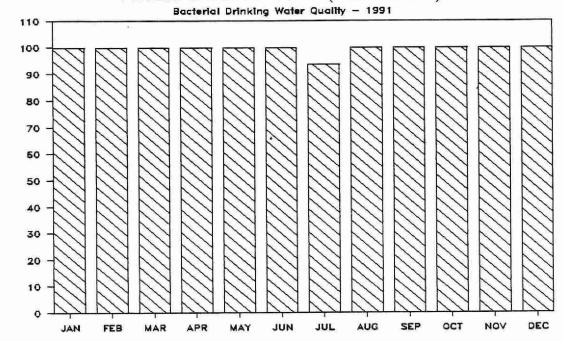
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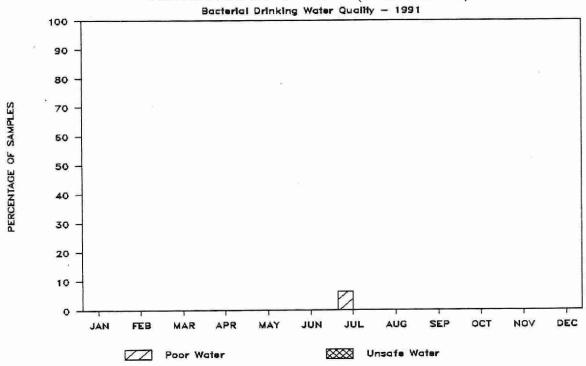
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AMELIASBURG TWP (FENWOOD)



PERCENTAGE OF SAFE SAMPLES

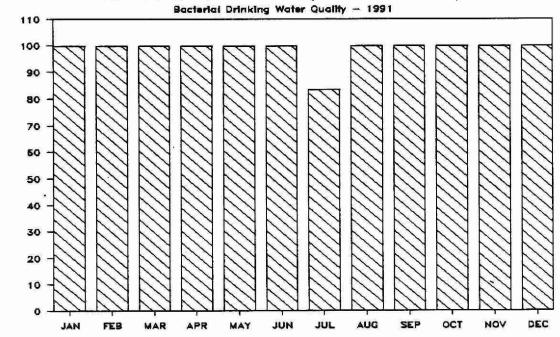
AMELIASBURG TWP (FENWOOD)



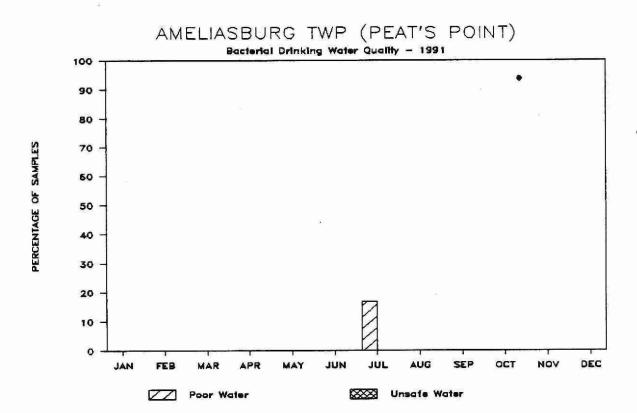
Number of samples submitted from AMELIASBURG TWP (FENWOOD) during 1991 for the analysis of treated water.

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AMELIASBURG TWP (PEAT'S POINT)



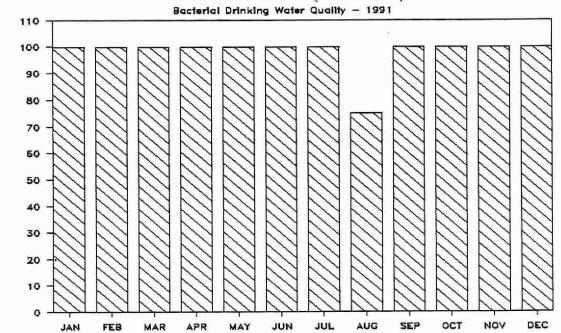
PERCENTAGE OF SAFE SAMPLES



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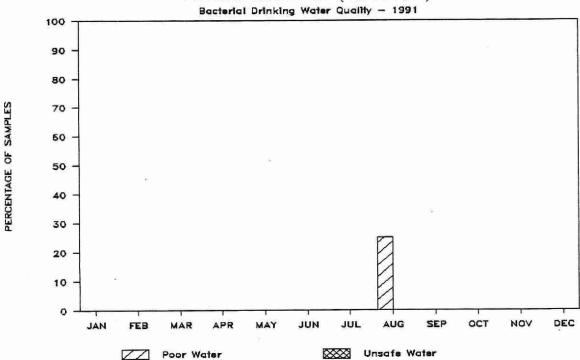
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AMELIASBURG (VILLAGE)



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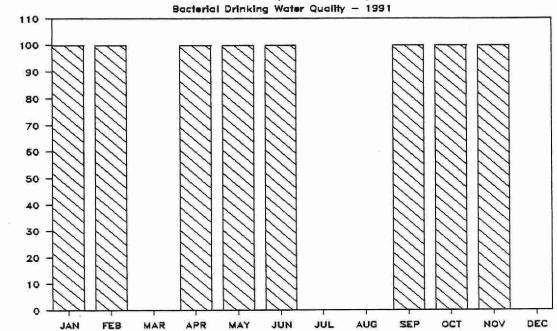
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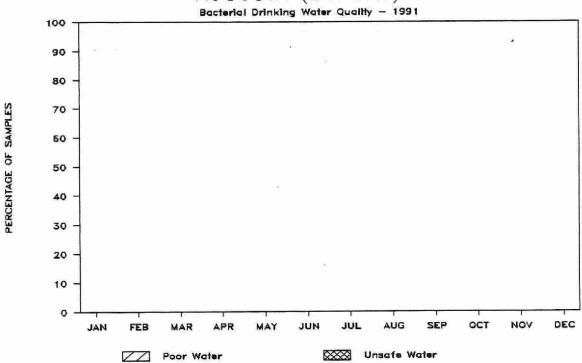
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AUGUSTA (DUPONT)



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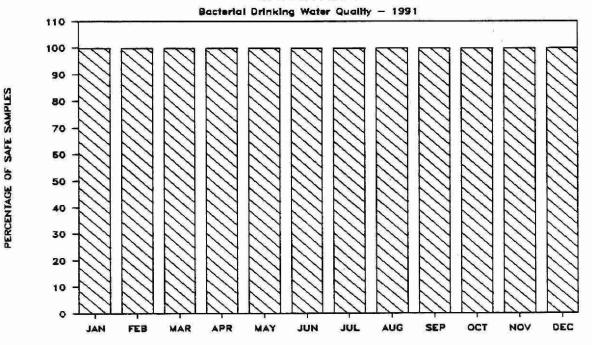
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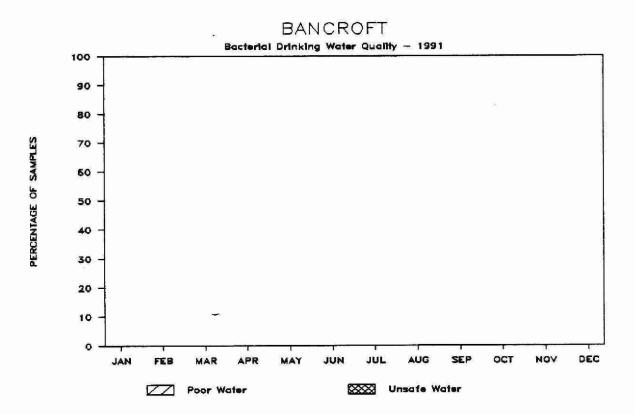


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BANCROFT

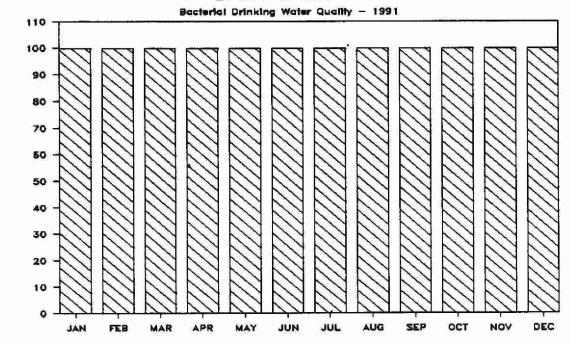




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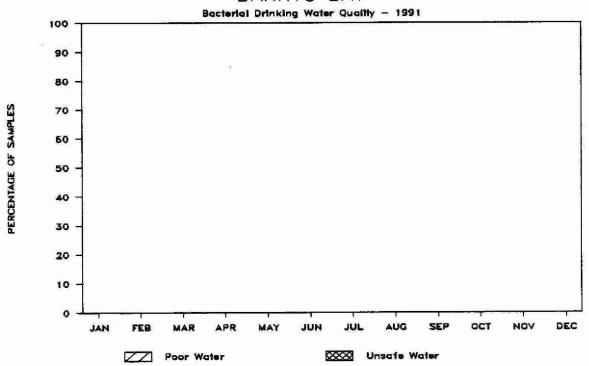
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BARRYS BAY



PERCENTAGE OF SAFE SAMPLES

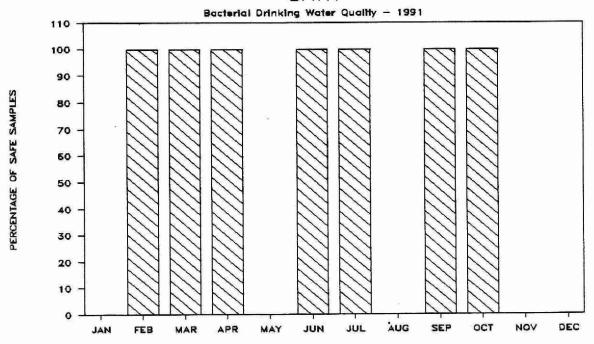
BARRYS BAY

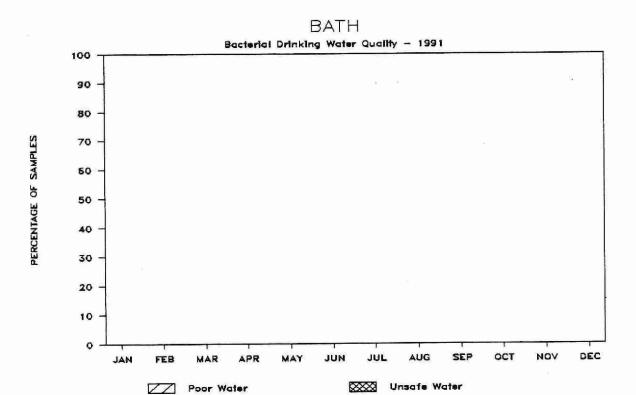


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BATH

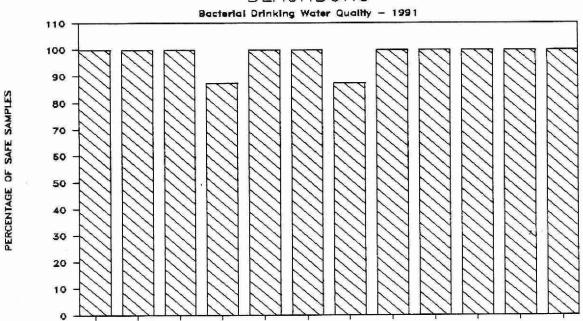




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BEACHBURG

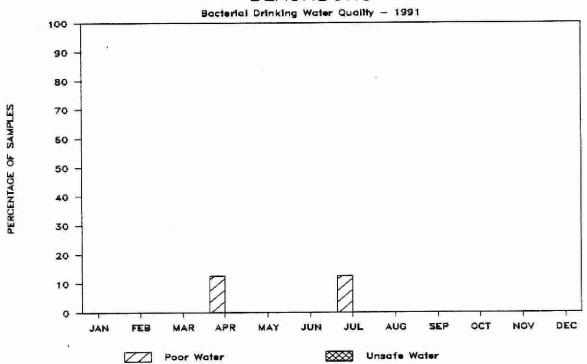




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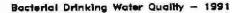
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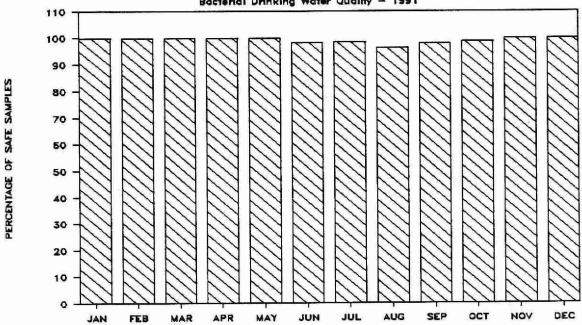


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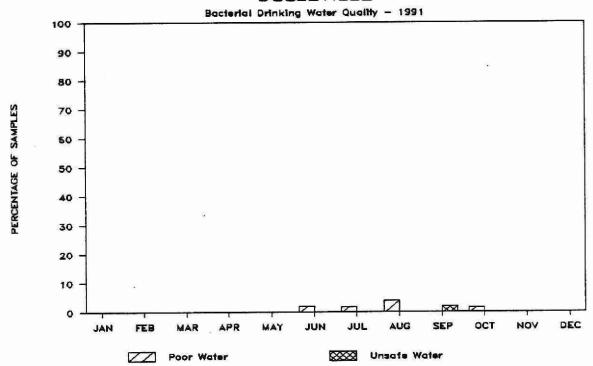
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BELLEVILLE





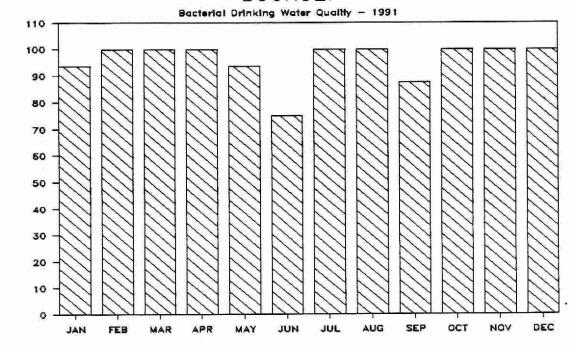
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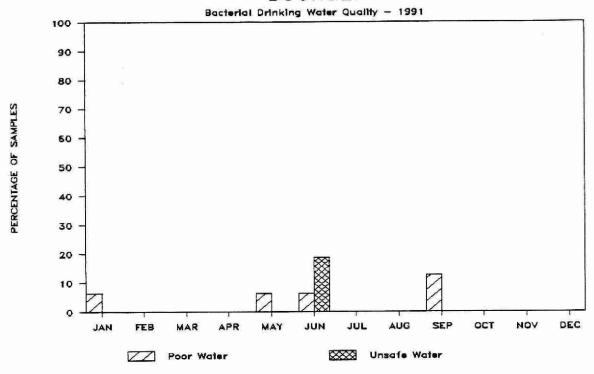
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BOURGET



PERCENTAGE OF SAFE SAMPLES

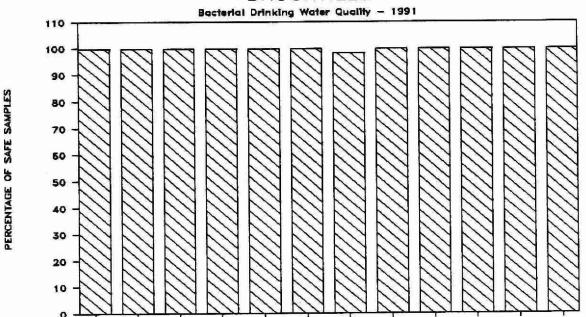




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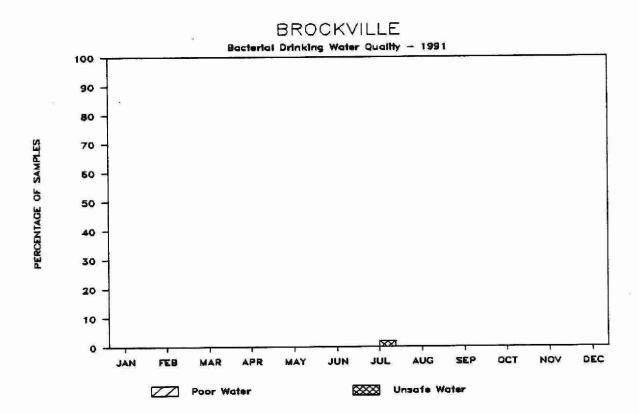
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BROCKVILLE



JUN

JUL



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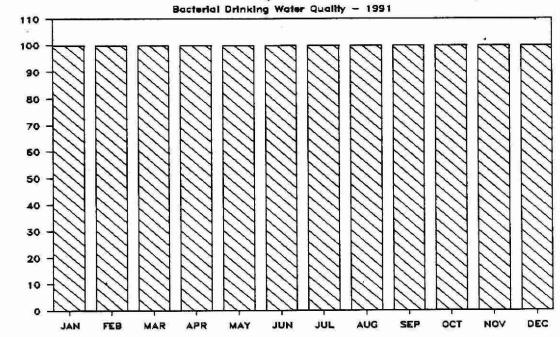
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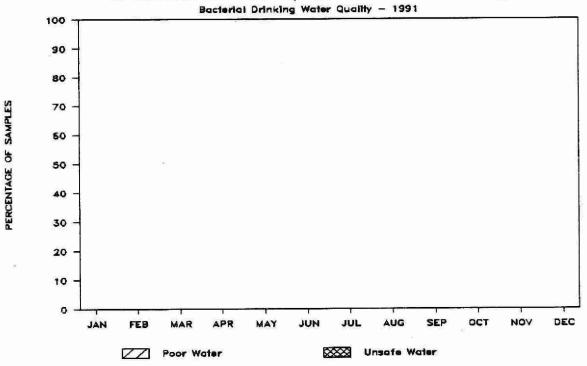
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CAMBRIDGE TWP (FOREST PARK EAST)



PERCENTAGE OF SAFE SAMPLES

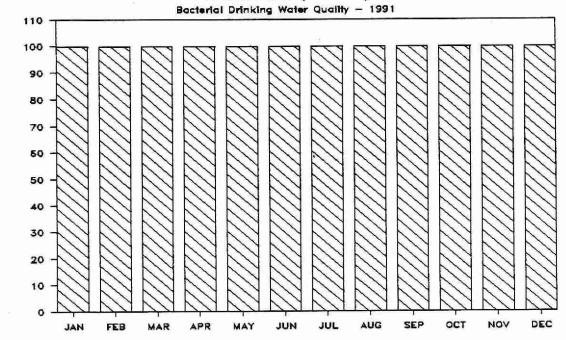
CAMBRIDGE TWP (FOREST PARK EAST)



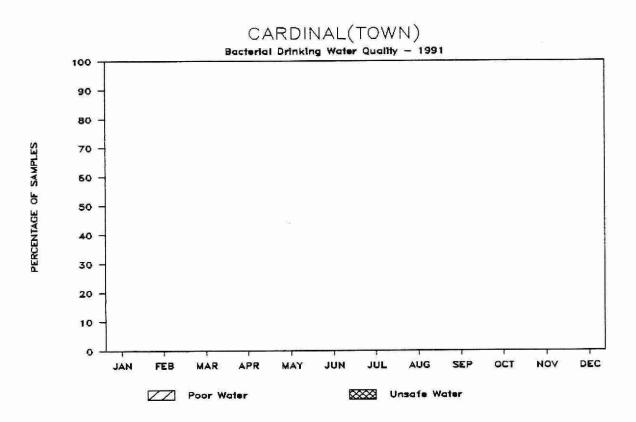
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CARDINAL(TOWN)



PERCENTAGE OF SAFE SAMPLES



Number of samples submitted from CARDINAL(TOWN) during 1991 for the analysis of treated water.

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CARLETON PLACE

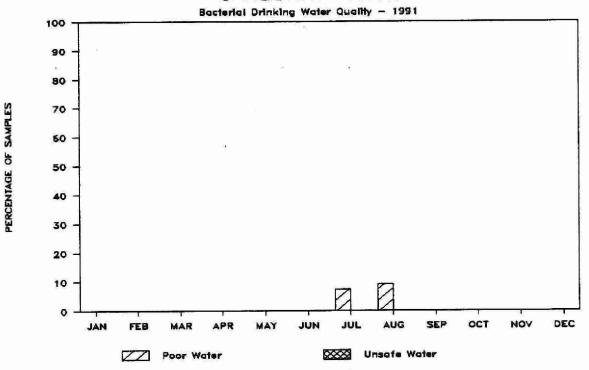
PERCENTAGE OF SAFE SAMPLES

CARLETON PLACE

JUN

JUL

SEP



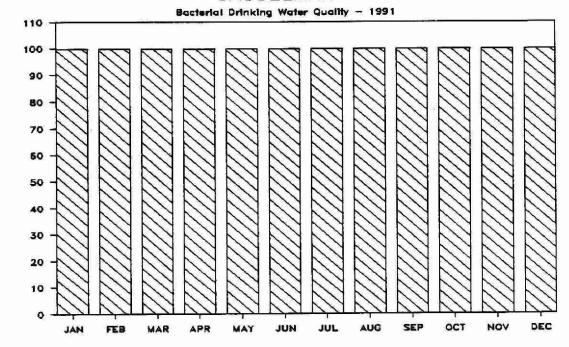
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DEC

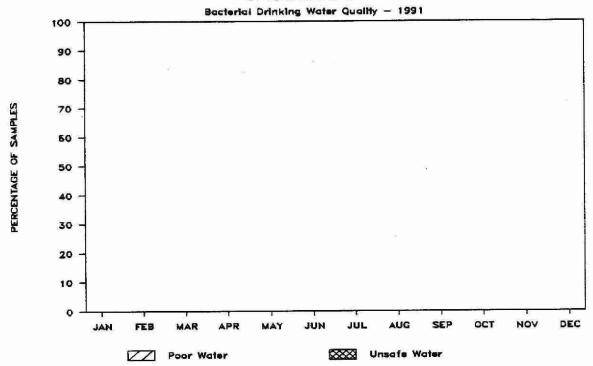
NOV

CASSELMAN



PERCENTAGE OF SAFE SAMPLES

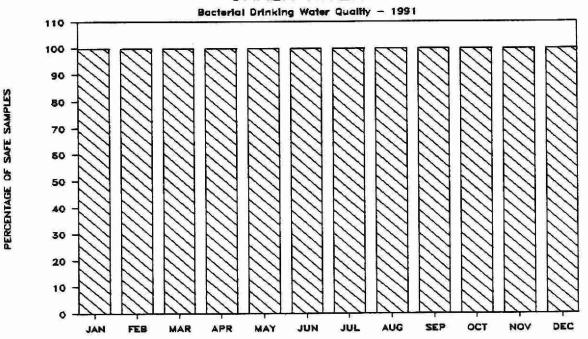
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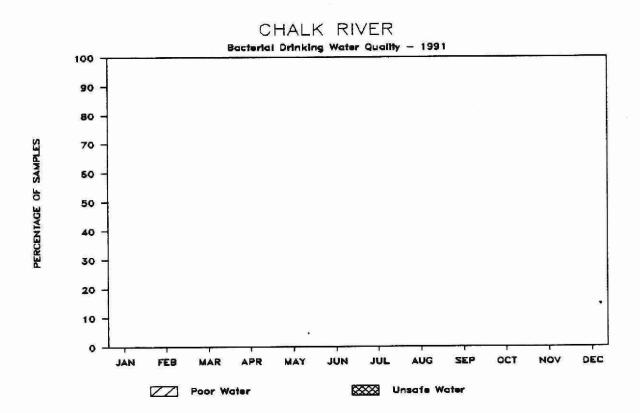


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CHALK RIVER

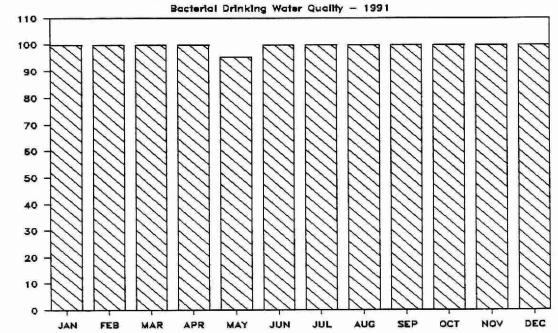




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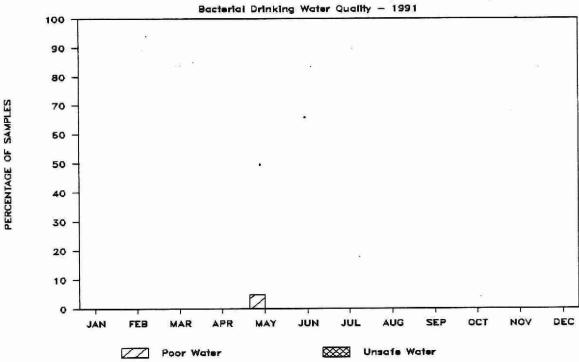
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
11 12 12 12 15 12 15 12 12 15 9 9 146

CHARLOTTENBURGH TWP (PURCELL)



PERCENTAGE OF SAFE SAMPLES

CHARLOTTENBURGH TWP (PURCELL)

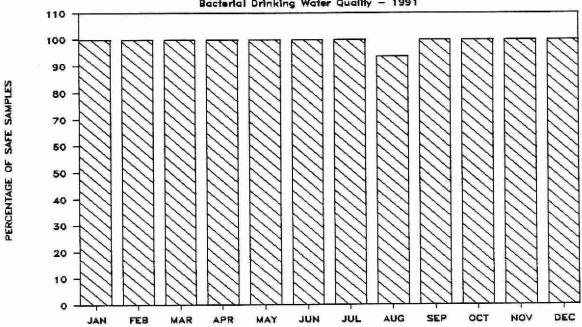


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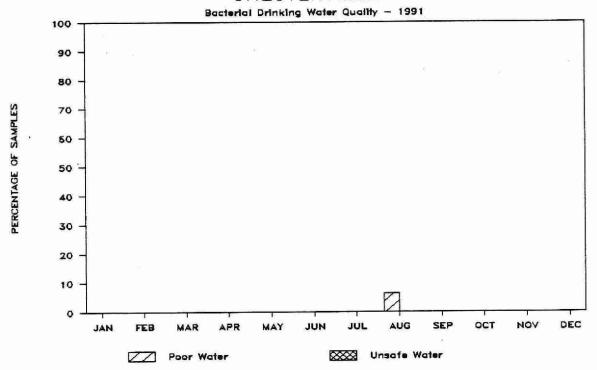
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CHESTERVILLE

Bacteriai Drinking Water Quality - 1991



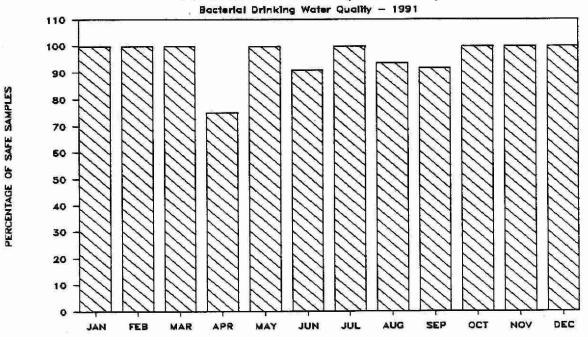
CHESTERVILLE



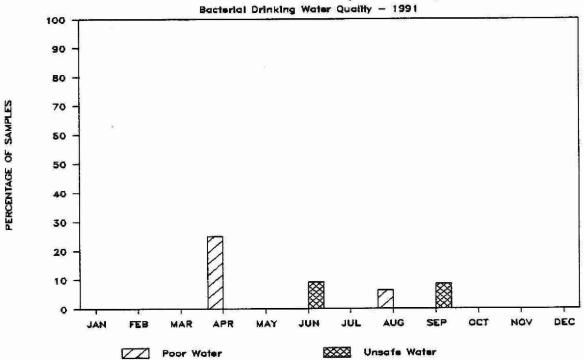
Number of samples submitted from CHESTERVILLE during 1991 for the analysis of treated water.

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CLARENCE TWP (CHENEY)



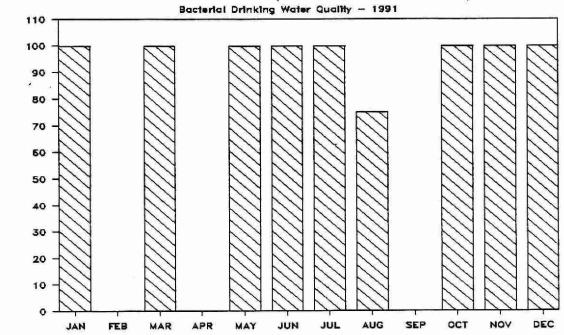
CLARENCE TWP (CHENEY)



Number of samples submitted from CLARENCE TWP (CHENEY) during 1991 for the analysis of treated water.

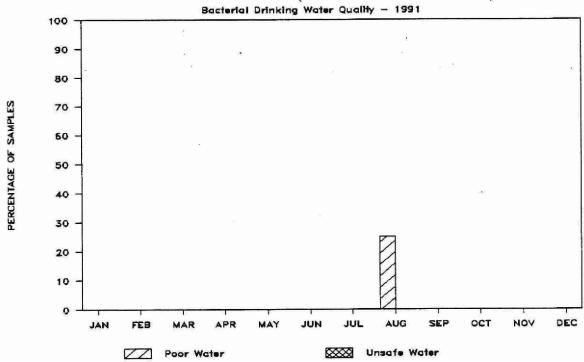
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 9 12 12 12 11 15 16 12 15 12 9 147

CLARENCE TWP (CLARENCE CREEK)



PERCENTAGE OF SAFE SAMPLES

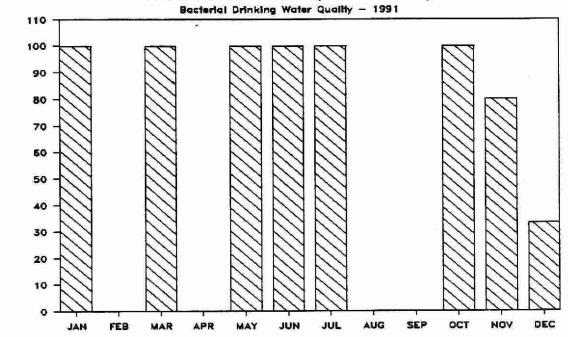
CLARENCE TWP (CLARENCE CREEK)



Number of samples submitted from CLARENCE TWP (CLARENCE CREEK) during 1991 for the analysis of treated water.

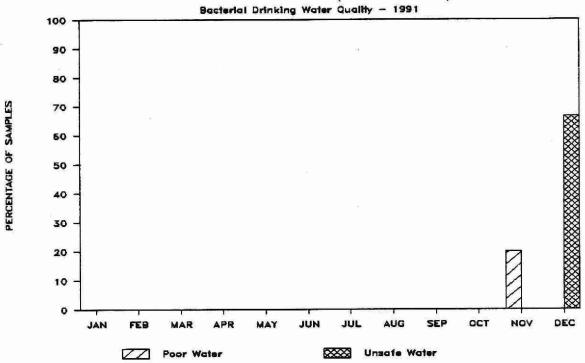
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
2 0 4 0 2 2 4 4 0 8 10 6 42

CLARENCE TWP (HAMMOND)



PERCENTAGE OF SAFE SAMPLES

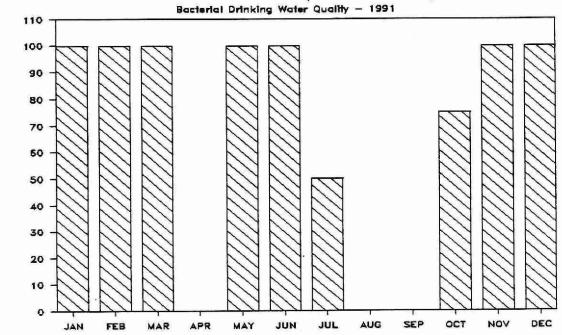
CLARENCE TWP (HAMMOND)



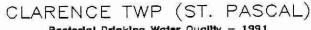
Number of samples submitted from CLARENCE TWP (HANNOND) during 1991 for the analysis of treated water.

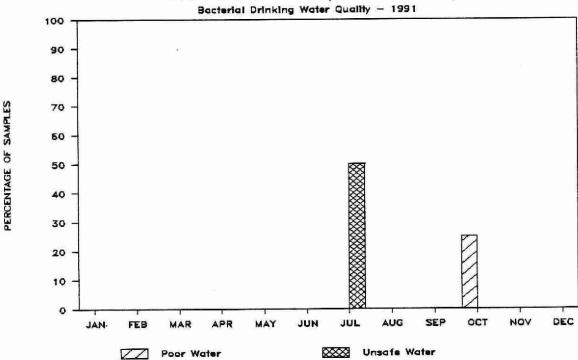
JAN FEB' MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
1 0 2 0 1 1 3 0 0 4 5 3 20

CLARENCE TWP (ST. PASCAL)



PERCENTAGE OF SAFE SAMPLES



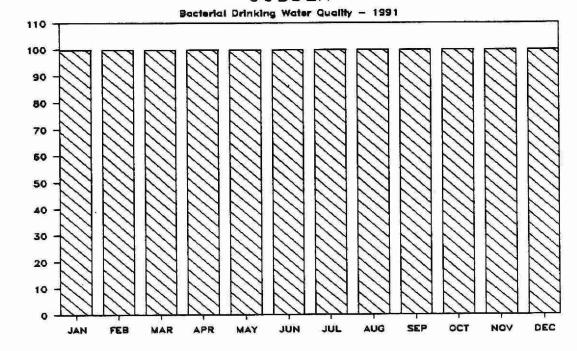


Number of samples submitted from CLARENCE TWP (ST. PASCAL) during 1991 for the analysis of treated water.

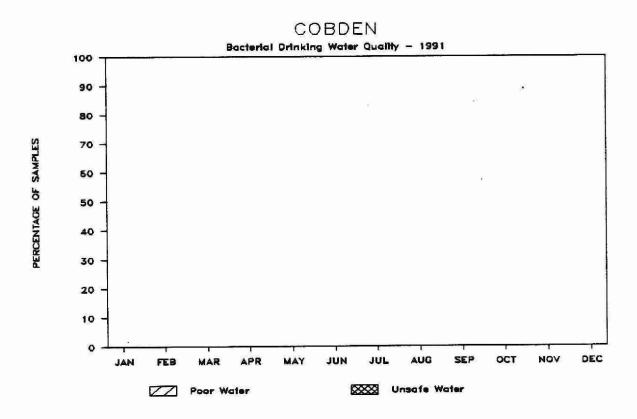
 JAN FEB
 MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL

 1
 1
 2
 0
 1
 1
 2
 0
 0
 4
 4
 3
 19

COBDEN



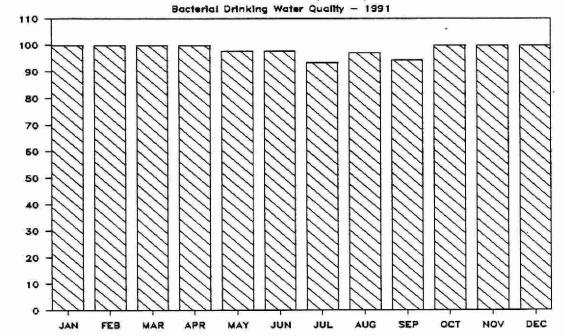
PERCENTAGE OF SAFE SAMPLES



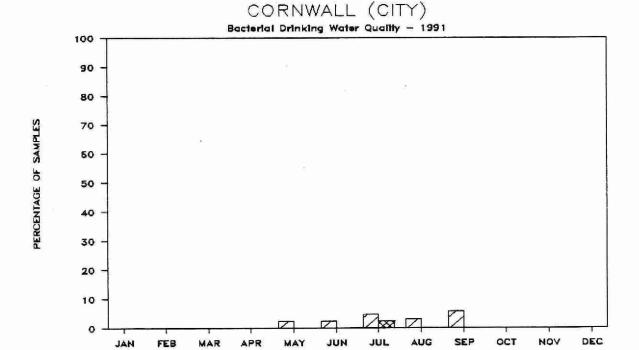
Number of samples submitted from COBDEN during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
14 12 12 12 15 12 15 12 12 15 12 9 152

CORNWALL (CITY)



PERCENTAGE OF SAFE SAMPLES



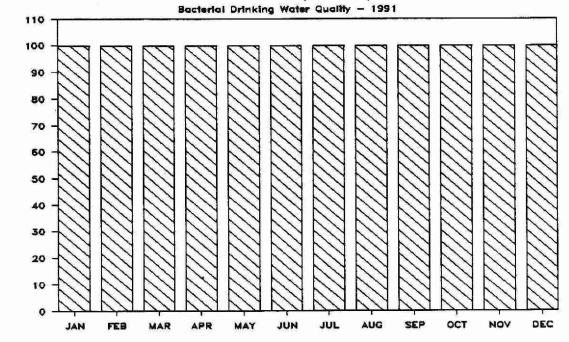
Number of samples submitted from CORNWALL (CITY) during 1991 for the analysis of treated water.

Poor Water

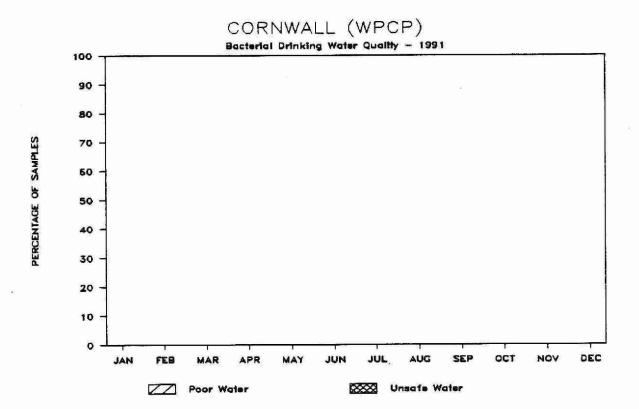
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
43 44 41 33 42 43 45 33 36 41 35 28 464

Water Water

CORNWALL (WPCP)



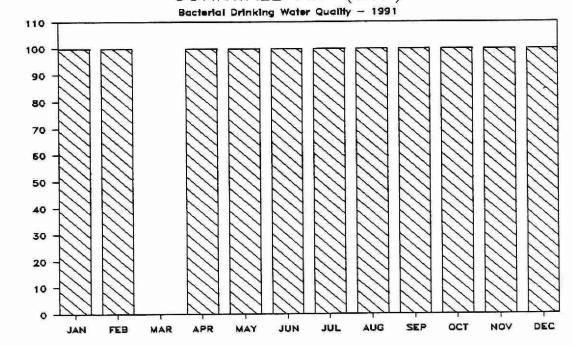
PERCENTAGE OF SAFE SAMPLES



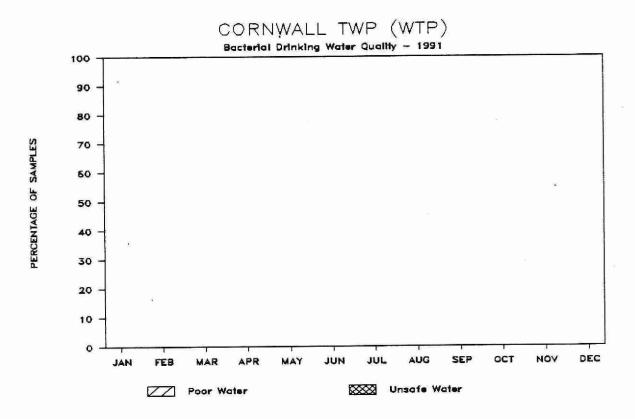
Number of samples submitted from CORNWALL (WPCP) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
2 2 2 2 2 1 1 2 2 3 3 1 23

CORNWALL TWP (WTP)



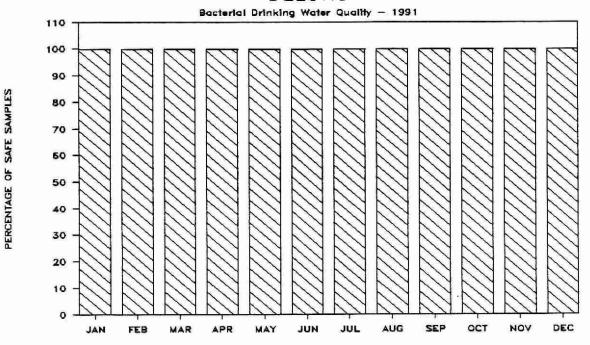
PERCENTAGE OF SAFE SAMPLES



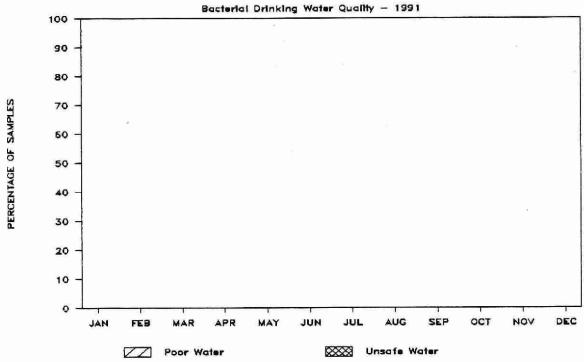
Number of samples submitted from CORNWALL TWP (WTP) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
4 6 0 3 6 3 3 6 3 7 6 6 53

DELORO



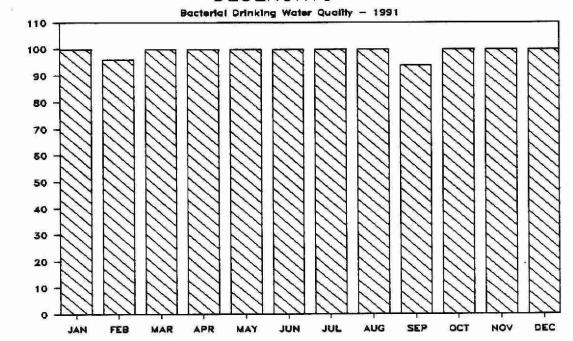




Number of samples submitted from DELORO during 1991 for the analysis of treated water.

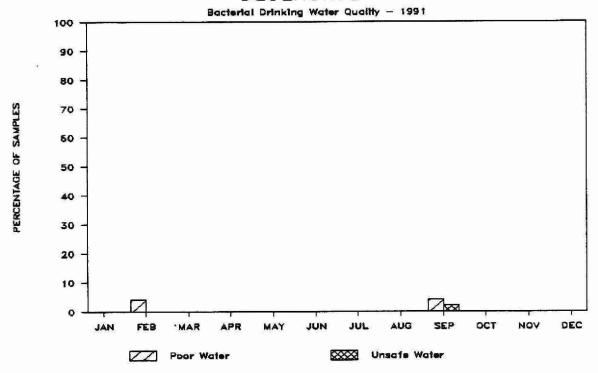
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 12 12 12 12 9 12 15 12 12 12 12 6 138

DESERONTO



PERCENTAGE OF SAFE SAMPLES

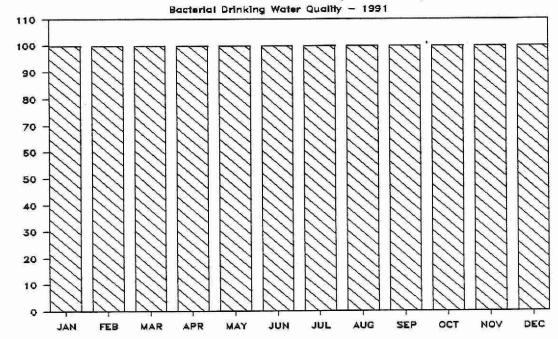
DESERONTO



Number of samples submitted from DESERONTO during 1991 for the analysis of treated water.

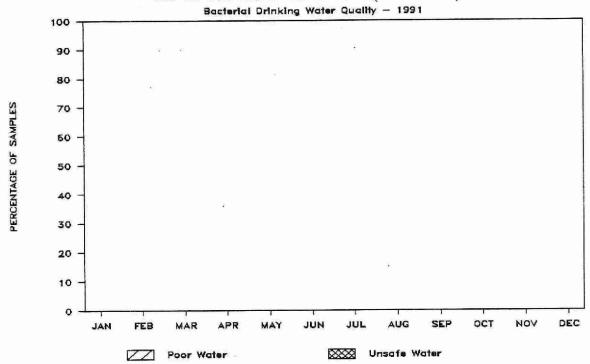
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 24 25 25 24 33 22 33 23 49 30 24 18 330

EDWARDSBURG TWP (PIRELLI)



PERCENTAGE OF SAFE SAMPLES

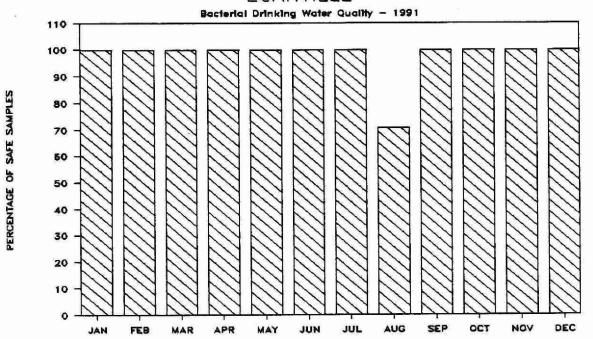
EDWARDSBURG TWP (PIRELLI)

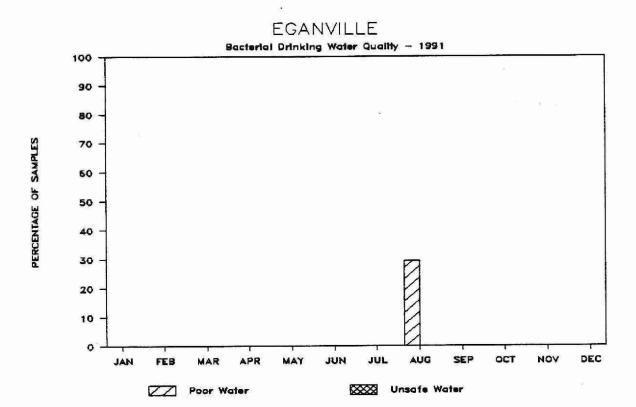


Number of samples submitted from EDWARDSBURG TWP (PIRELLI) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
11 8 11 9 14 12 11 15 12 15 12 9 139

EGANVILLE

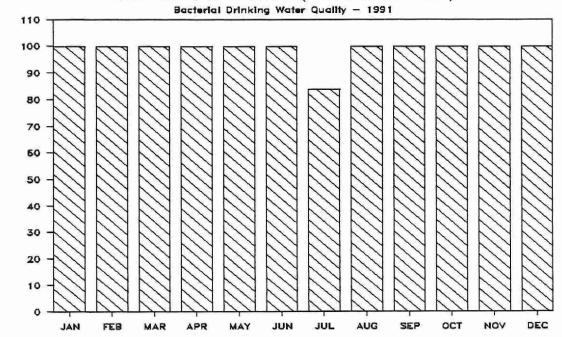




Number of samples submitted from EGANVILLE during 1991 for the analysis of treated water.

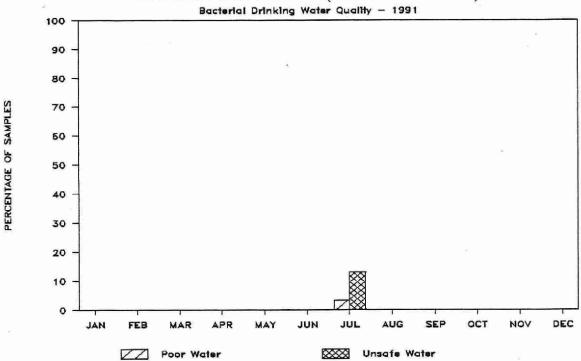
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 29 21 21 20 25 28 35 34 28 35 20 15 311

ERNESTOWN TWP (AMHERSTVIEW)



PERCENTAGE OF SAFE SAMPLES

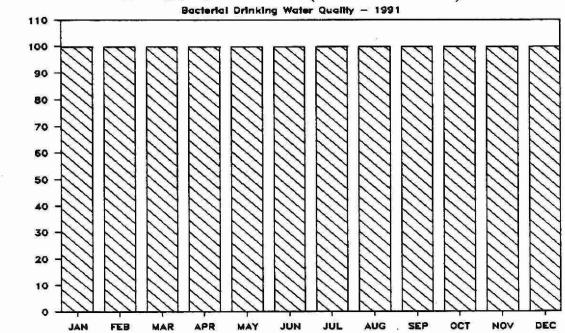
ERNESTOWN TWP (AMHERSTVIEW)



Number of samples submitted from ERNESTOWN TWP (AMHERSTVIEW) during 1991 for the analysis of treated water.

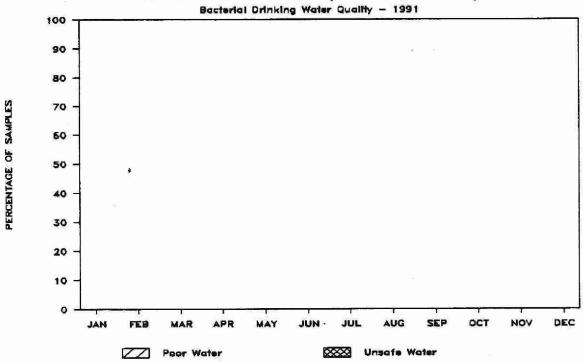
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 21 20 15 25 20 20 31 20 20 21 15 15 243

ERNESTOWN TWP (BROOKLANDS)



PERCENTAGE OF SAFE SAMPLES

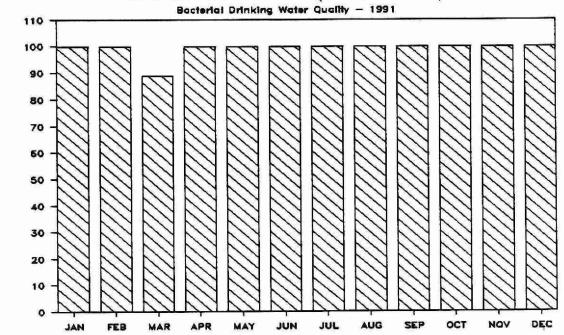
ERNESTOWN TWP (BROOKLANDS)



Number of samples submitted from ERNESTOWN TWP (BROOKLANDS) during 1991 for the analysis of treated water.

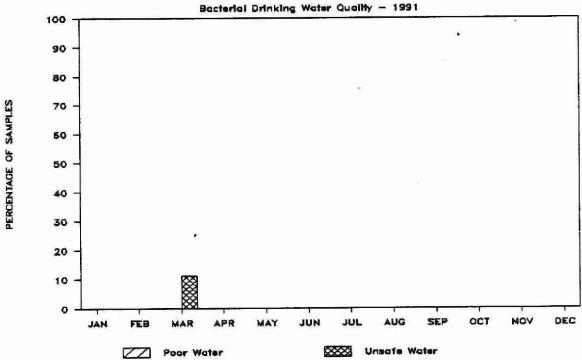
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
4 4 3 8 8 8 10 8 8 5 3 3 72

ERNESTOWN TWP (HAREWOOD)



PERCENTAGE OF SAFE SAMPLES

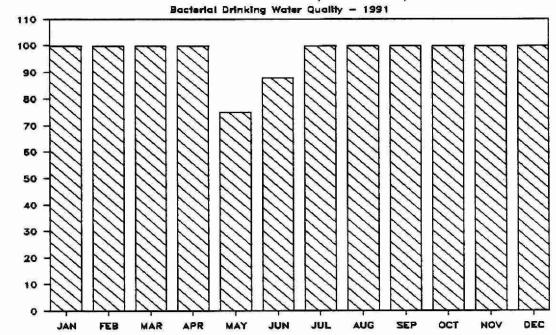
ERNESTOWN TWP (HAREWOOD)



Number of samples submitted from ERNESTOWN TWP (HAREWOOOD) during 1991 for the analysis of treated water.

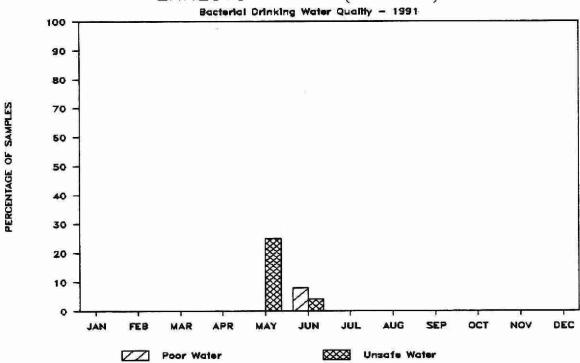
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
12 12 9 13 12 12 15 11 12 9 7 9 133

ERNESTOWN TWP (ODESSA)



PERCENTAGE OF SAFE SAMPLES

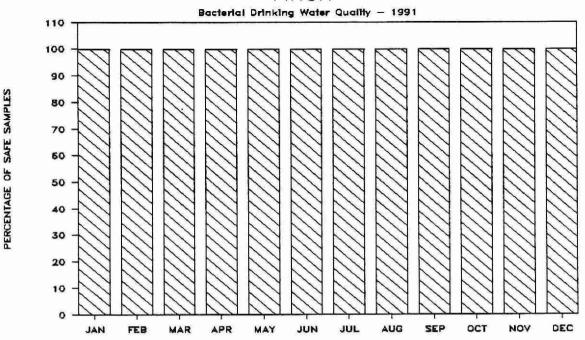
ERNESTOWN TWP (ODESSA)



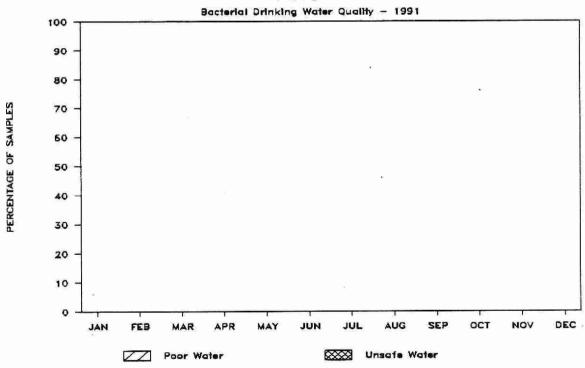
Number of samples submitted from ERNESTOWN TWP (ODESSA) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
19 22 20 20 36 100 27 20 20 25 20 15 344

FINCH



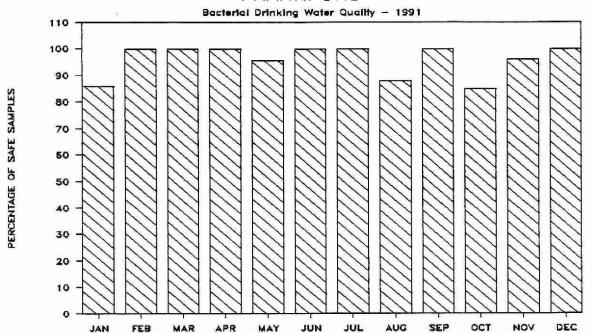




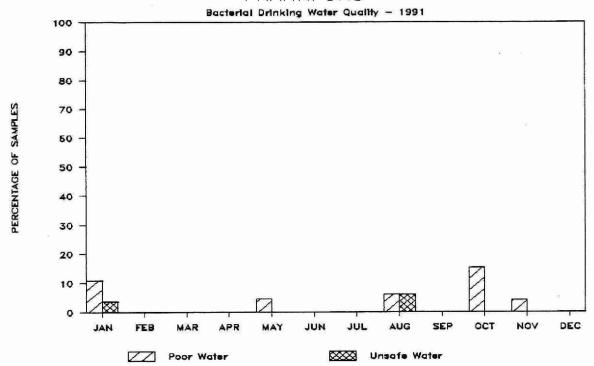
Number of samples submitted from FINCH during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
12 12 12 16 13 16 13 13 16 12 9 156

FRANKFORD



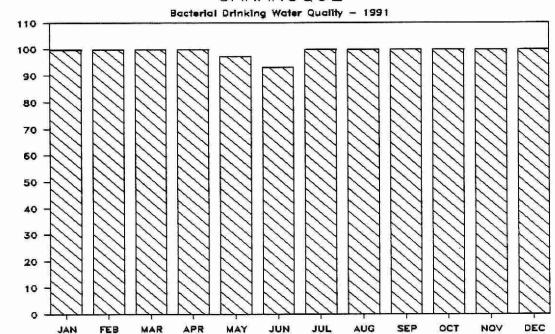
FRANKFORD



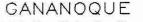
Number of samples submitted from FRANKFORD during 1991 for the analysis of treated water.

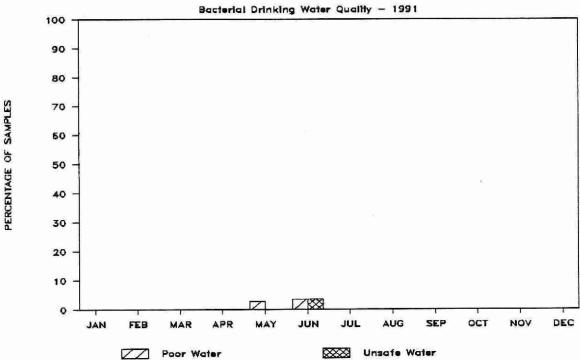
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 28 25 27 33 22 27 29 33 24 33 25 20 326

GANANOQUE



PERCENTAGE OF SAFE SAMPLES

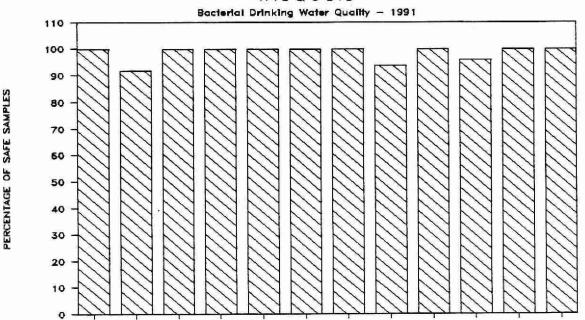




Number of samples submitted from GANANOQUE during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 35 28 28 28 35 29 36 27 21 37 28 21 353

IROQUOIS



JUL

AUG

AUG

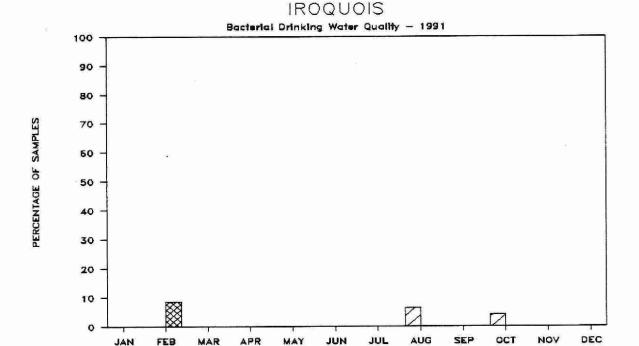
Www. Unsafe Water

SEP

SEP

OCT

NOV



Number of samples submitted from IROQUOIS during 1991 for the analysis of treated water.

NUL

MAY

JAN

MAR

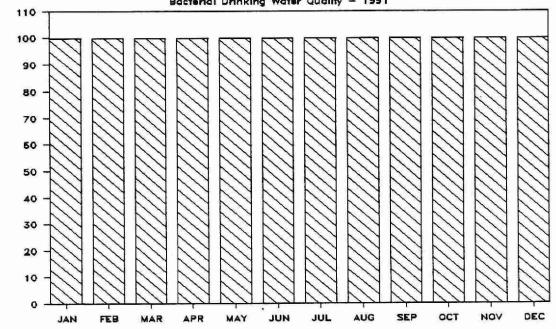
Poor Water

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 12 12 16 19 12 19 16 15 24 16 12 189

DEC

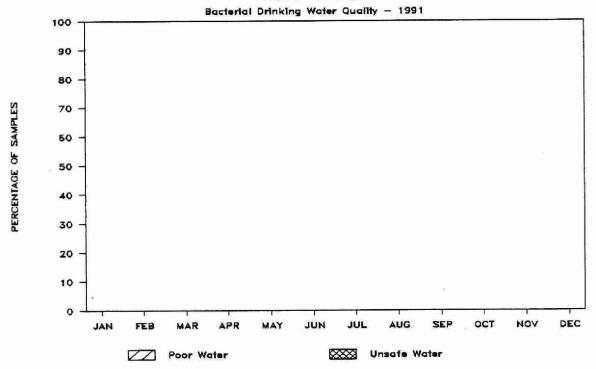
KEMPTVILLE

Bacterial Drinking Water Quality - 1991



PERCENTAGE OF SAFE SAMPLES

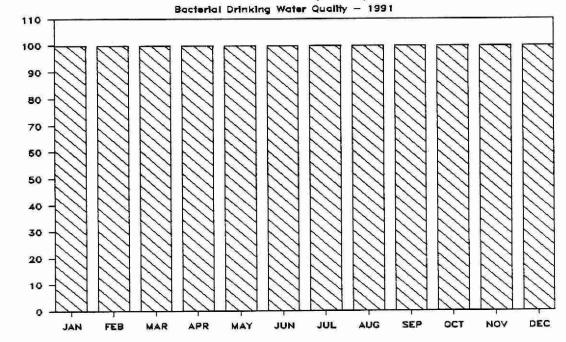
KEMPTVILLE



Number of samples submitted from KEMPTVILLE during 1991 for the analysis of treated water.

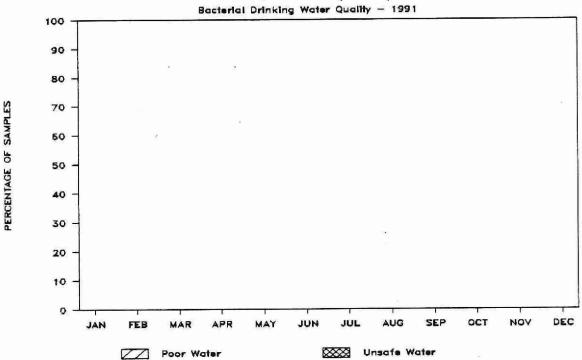
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 10 7 5 7 5 15 25 21 20 20 20 10 165

KINGSTON (CITY)



PERCENTAGE OF SAFE SAMPLES

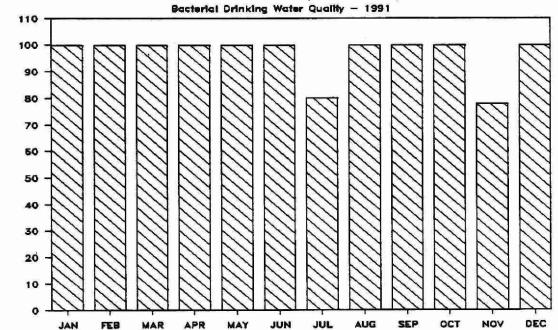




Number of samples submitted from KINGSTON (CITY) during 1991 for the analysis of treated water.

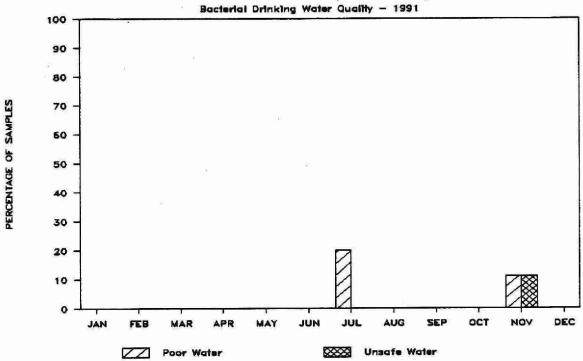
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 91 56 60 62 71 57 66 57 60 71 61 35 747

KINGSTON TWP (DUPONT)



PERCENTAGE OF SAFE SAMPLES

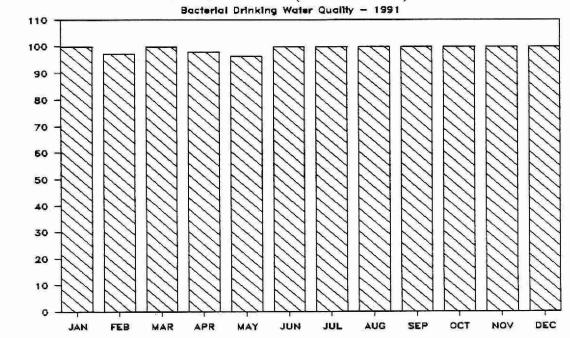
KINGSTON TWP (DUPONT)



Number of samples submitted from KINGSTON TWP (DUPONT) during 1991 for the analysis of treated water.

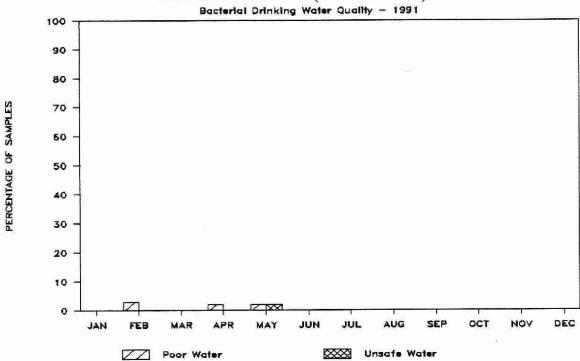
JAN FEB NAR APR NAY JUN JUL AUG SEP OCT NOV DEC TOTAL
10 8 8 10 8 8 10 8 8 10 9 8 105

KINGSTON TWP (WT PLANT)



PERCENTAGE OF SAFE SAMPLES

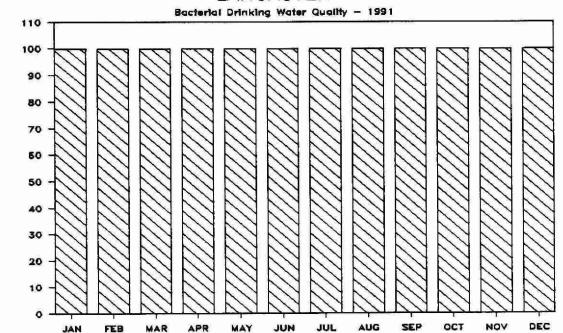
KINGSTON TWP (WT PLANT)



Number of samples submitted from KINGSTON TWP (WTP) during 1991 for the analysis of treated water.

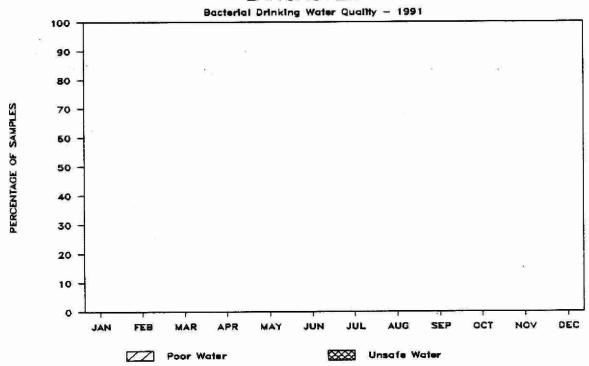
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 59 35 48 51 52 40 60 45 45 53 45 32 565

LANCASTER



PERCENTAGE OF SAFE SAMPLES

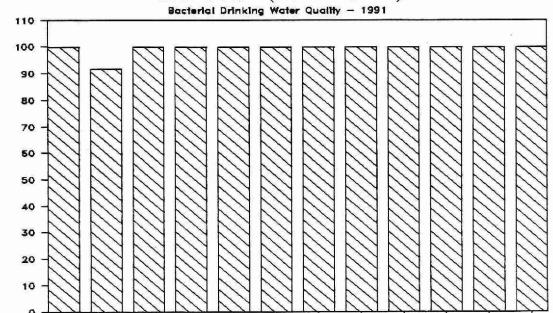
LANCASTER



Number of samples submitted from LANCASTER during 1991 for the analysis of treated water.

JAN PEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 19 16 12 16 23 19 17 21 17 21 16 12 209

LANCASTER (CREG QUAY)



PERCENTAGE OF SAFE SAMPLES

LANCASTER (CREG QUAY)

JUN

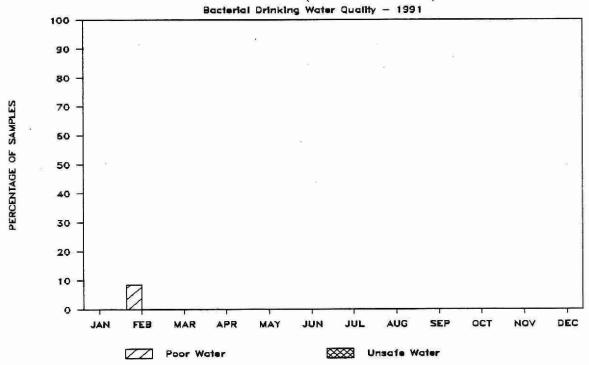
JUL

AUG

SEP

OCT

NOV



Number of samples submitted from LANCASTER (CREG QUAY) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 15 12 12 15 12 14 15 12 12 15 12 9 155

DEC

LANSDOWNE

Bacterial Drinking Water Quality - 1991

100

90

80

70

50

40

30

20

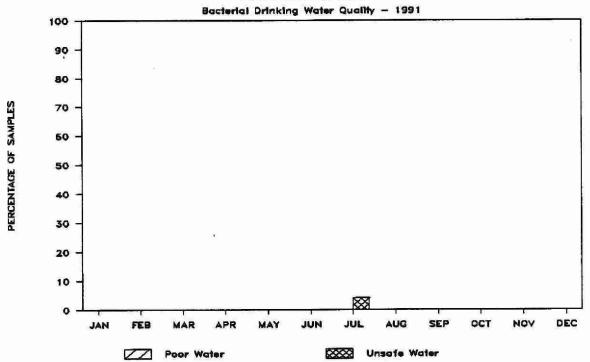
10

PERCENTAGE OF SAFE SAMPLES

FEB

LANSDOWNE

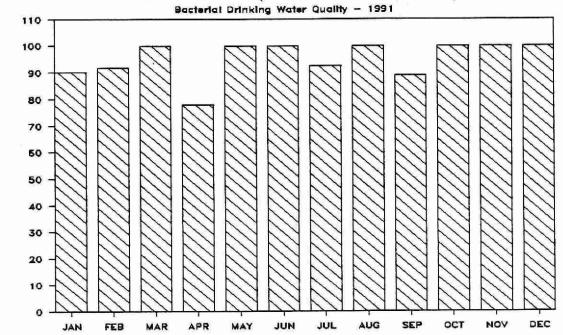
JUL



Number of samples submitted from LANSDOWNE during 1991 for the analysis of treated water.

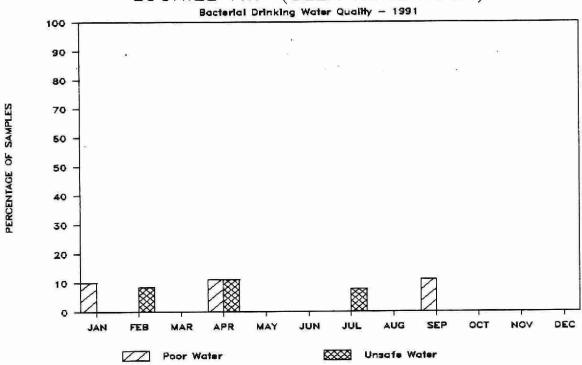
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 11 14 15 19 16 15 25 17 17 23 18 18 208

LOCHIEL TWP (GLEN ROBERTSON)



PERCENTAGE OF SAFE SAMPLES

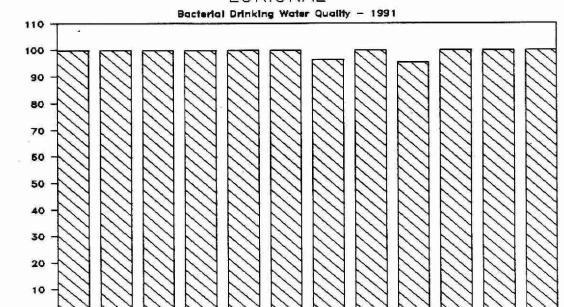
LOCHIEL TWP (GLEN ROBERTSON)



Number of samples submitted from LOCHIEL TWP (GLEN ROBERTSON) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 10 12 6 9 15 9 13 12 9 15 12 9 131

LORIGNAL



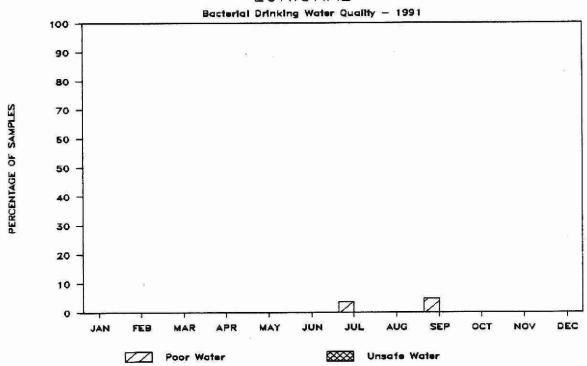
PERCENTAGE OF SAFE SAMPLES



JUN

JUL

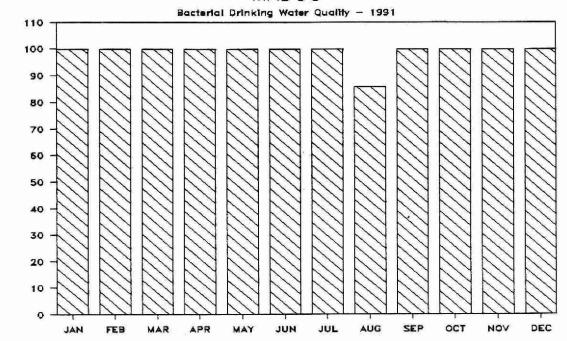
AUG



Number of samples submitted from LORIGNAL during 1991 for the analysis of treated water.

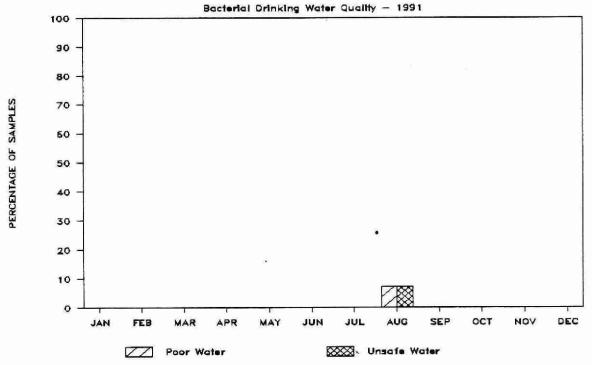
JAN FEB HAR APR HAY JUN JUL AUG SEP OCT NOV DEC TOTAL 23 21 20 25 20 24 27 19 21 29 24 19 272

MADOC



PERCENTAGE OF SAFE SAMPLES

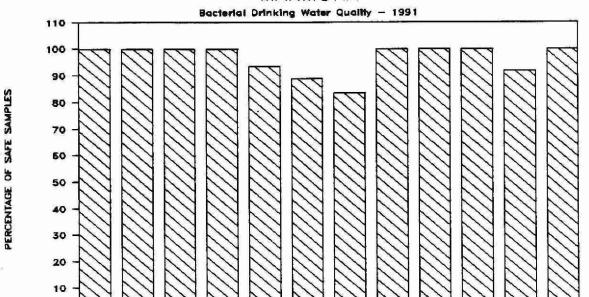




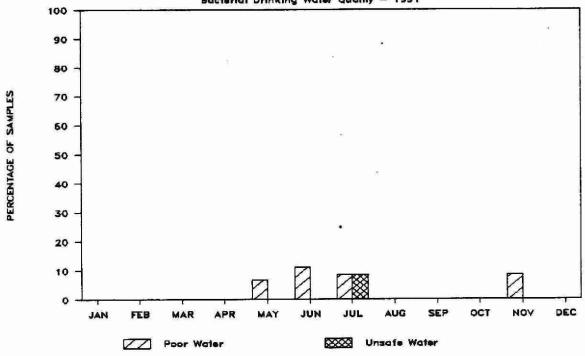
Number of samples submitted from NADOC during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
12 12 12 12 4 12 16 14 12 15 13 8 142

MARMORA







Number of samples submitted from MARMORA during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 12 12 6 9 15 9 12 13 6 15 12 9 130

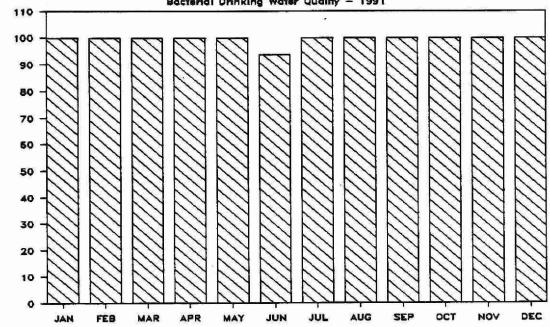
DEC

OCT

NOV

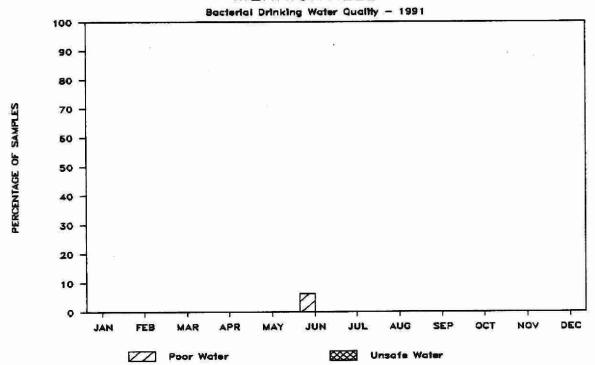
MERRICKVILLE

Bacterial Orinking Water Quality - 1991



PERCENTAGE OF SAFE SAMPLES

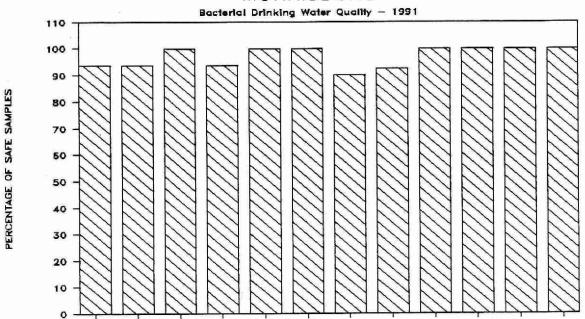




Number of samples submitted from MERRICKVILLE during 1991 for the analysis of treated water.

JAN FEB HAR APR HAY JUN JUL AUG SEP OCT NOV DEC TOTAL 19 16 16 16 16 16 20 17 17 20 16 12 201

MORRISBURG



MORRISBURG

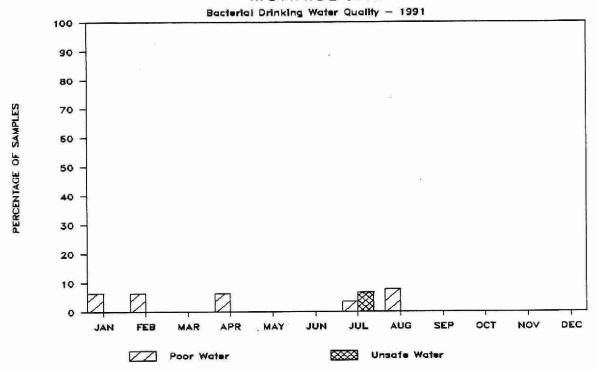
NUL

JAN

FEB

JUL

AUG

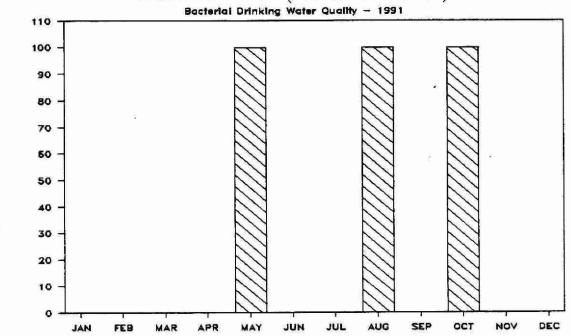


Number of samples submitted from MORRISBURG during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 16 16 16 16 28 22 30 26 18 26 20 15 249

DEC

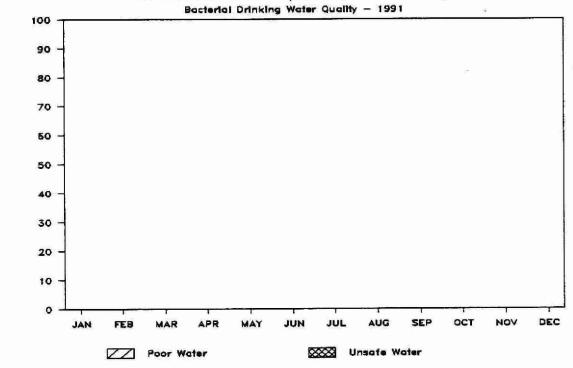
MURRAY TWP (TRENTON MHP)



PERCENTAGE OF SAFE SAMPLES

PERCENTAGE OF SAMPLES

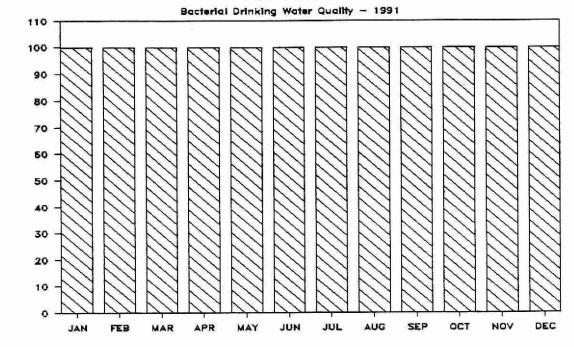
MURRAY TWP (TRENTON MHP)



Number of samples submitted from MURRAY TWP (TRENTON MHP) during 1991 for the analysis of treated water.

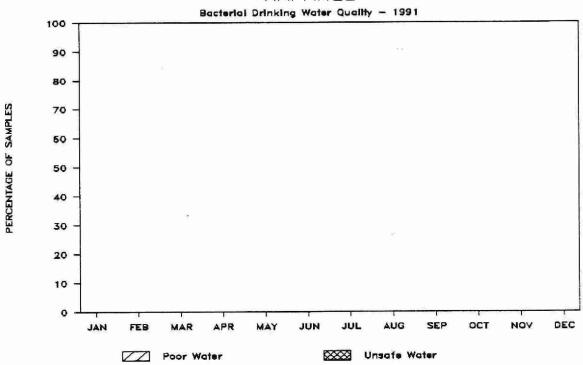
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
O O O O 2 O O 2 O 2 O 6

NAPANEE



PERCENTAGE OF SAFE SAMPLES

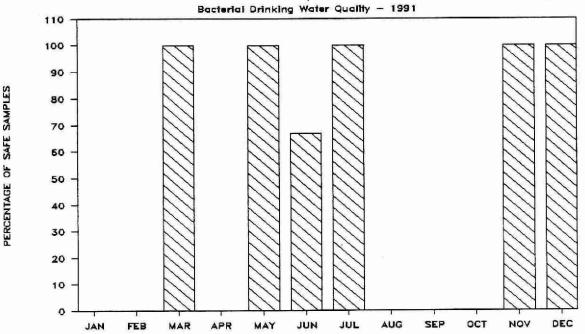




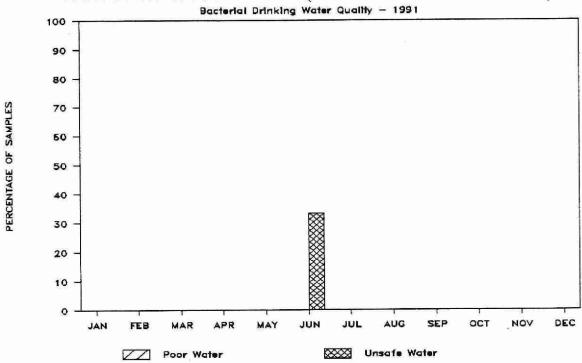
Number of samples submitted from NAPANEE during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 21 28 21 28 35 21 35 22 26 35 28 21 321

NO.PLANTAGENET TWP (DOMAINE PRUDHOMME)



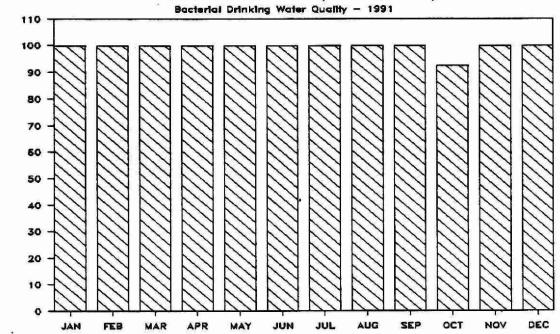
NO.PLANTAGENET TWP (DOMAINE PRUDHOMME)



Number of samples submitted from NORTH PLANTAGENET TWP (DOMAINE PRUDHOMME) during 1991 for the analysis of treated water.

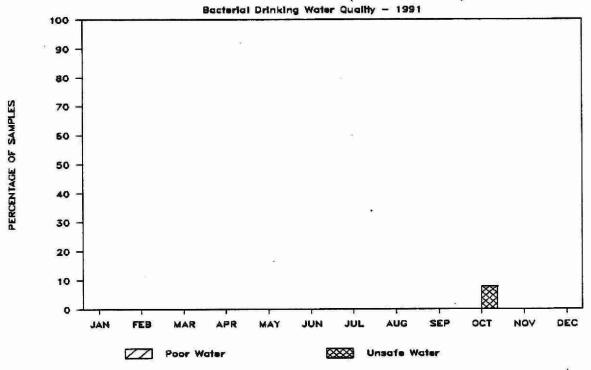
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
0 0 2 0 5 3 3 0 0 0 2 5 20

OSNABRUCK TWP (INGLESIDE)



PERCENTAGE OF SAFE SAMPLES

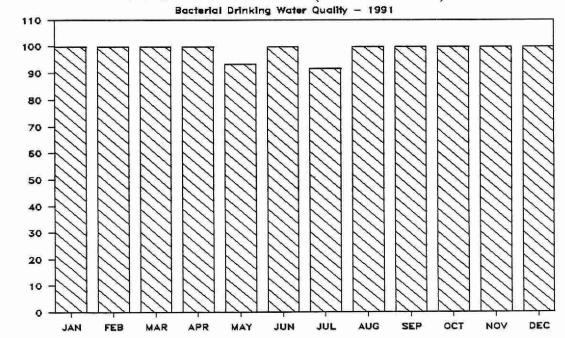
OSNABRUCK TWP (INGLESIDE)



Number of samples submitted from OSNABRUCK TWP (INGLESIDE) during 1991 for the analysis of treated water.

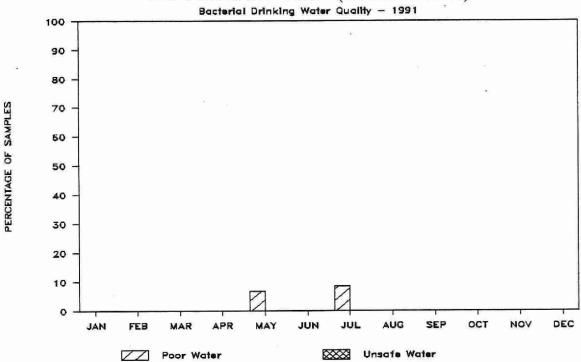
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 15 9 9 12 15 12 12 15 16 13 15 9 152

OSNABRUCK TWP (NEWINGTON)



PERCENTAGE OF SAFE SAMPLES

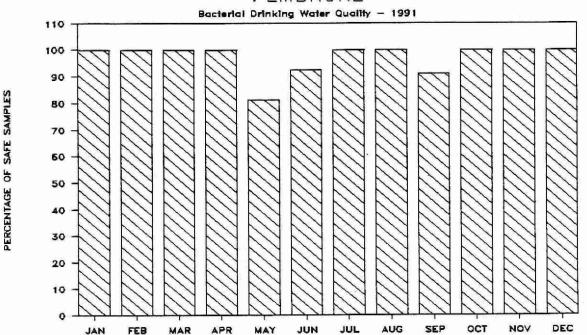
OSNABRUCK TWP (NEWINGTON)



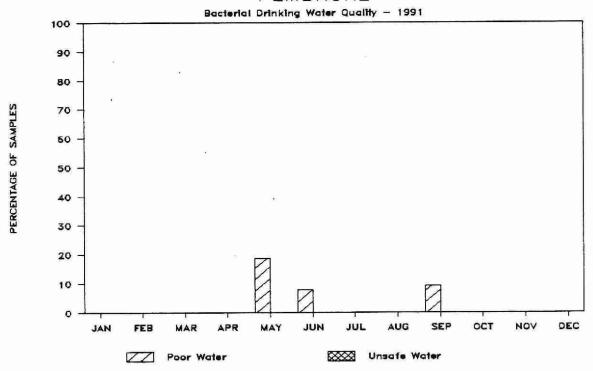
Number of samples submitted from OSNABRUCK TWP (NEWINGTON) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 12 12 9 14 15 12 12 15 9 13 6 9 138

PEMBROKE



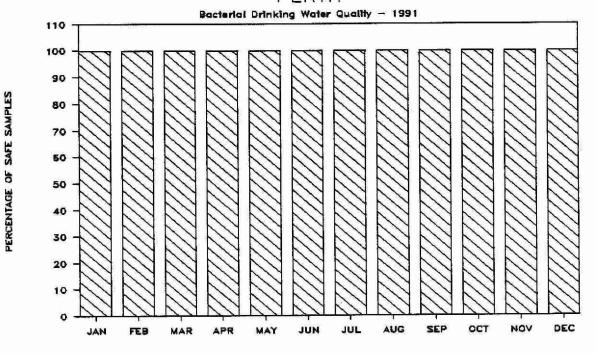
PEMBROKE

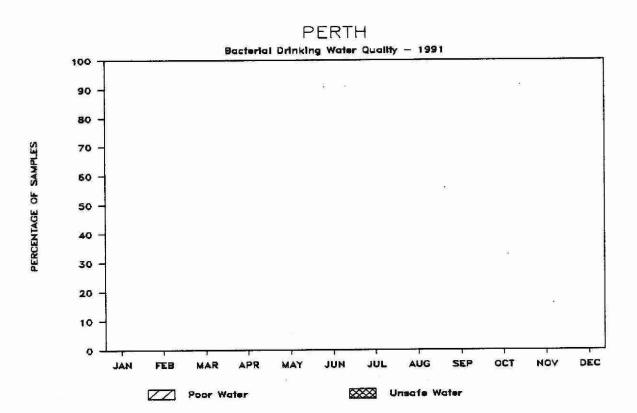


Number of samples submitted from PEMBROKE during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 12 12 15 16 13 21 18 22 22 16 12 191

PERTH

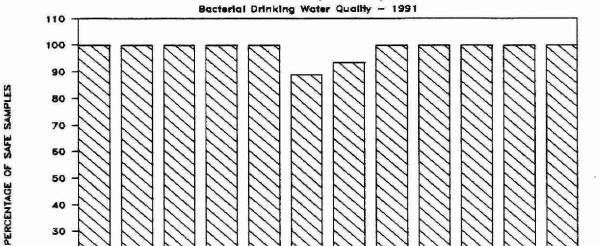




Number of samples submitted from PERTH during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 21 18 18 23 17 18 23 18 18 23 18 13 228

PICTON (TOWN)

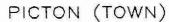


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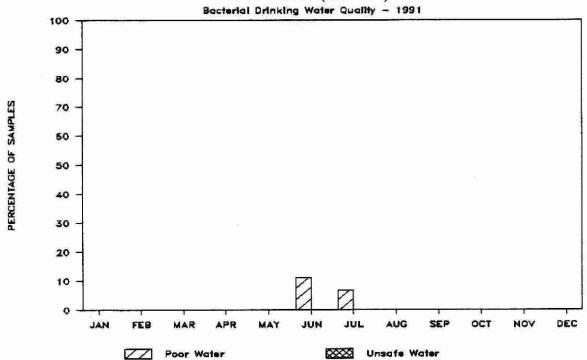
20

10

FEB



JUN

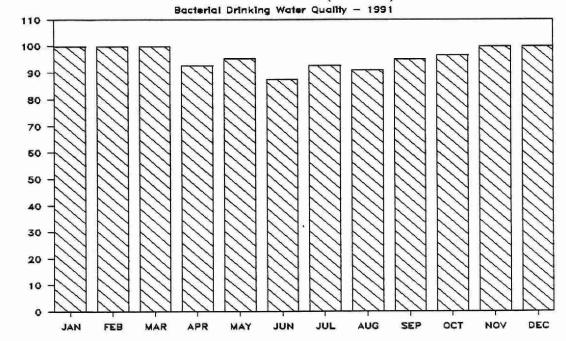


Number of samples submitted from PICTON (TOWN) during 1991 for the analysis of treated water.

JAN FEB MAR APR NAY JUN JUL AUG SEP OCT NOV DEC TOTAL 12 6 12 15 18 15 12 12 12 9

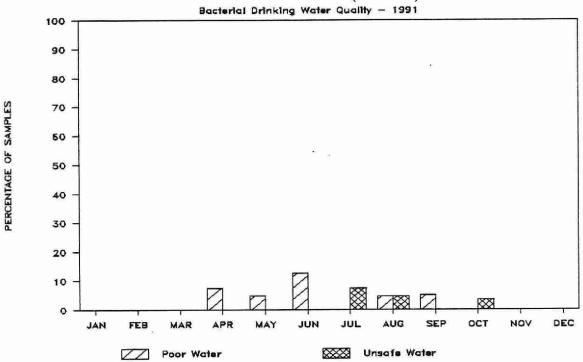
NOV

PITTSBURG TWP (TOWN)



PERCENTAGE OF SAFE SAMPLES

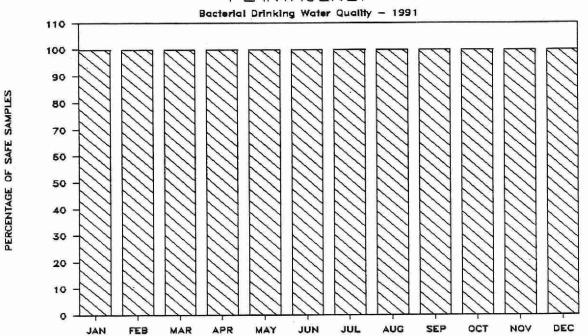
PITTSBURG TWP (TOWN)



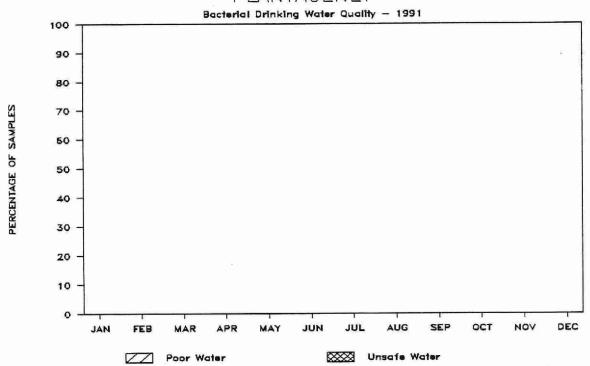
Number of samples submitted from PITTSBURG TWP (TOWN) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 20 12 16 27 21 32 27 22 20 29 30 24 280

PLANTAGENET



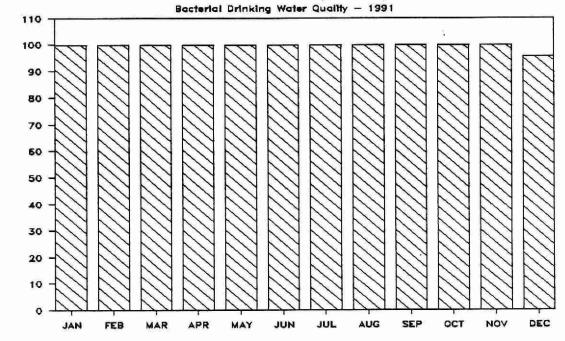
PLANTAGENET



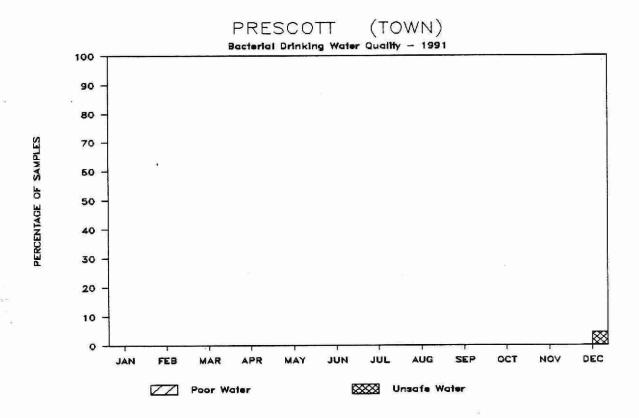
Number of samples submitted from PLANTAGENET during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 15 14 14 15 14 13 16 15 12 19 13 13 173

PRESCOTT (TOWN)



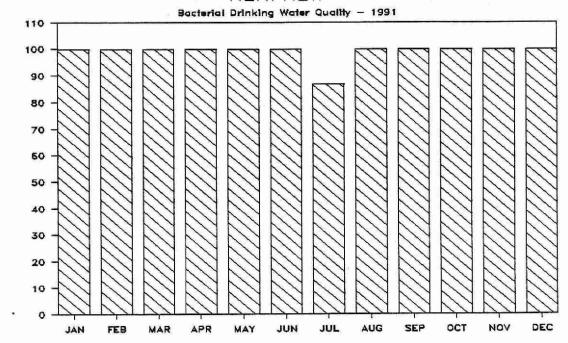
PERCENTAGE OF SAFE SAMPLES



Number of samples submitted from PRESCOTT (TOWN during 1991 for the analysis of treated water.

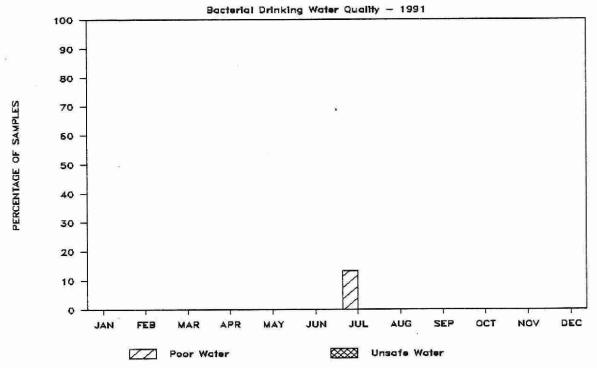
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 21 28 21 28 35 28 35 28 28 35 21 23 331

RENFREW



PERCENTAGE OF SAFE SAMPLES



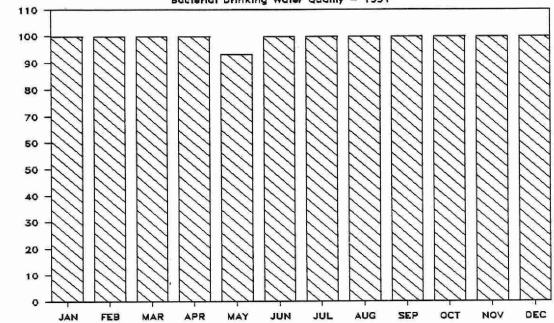


Number of samples submitted from RENFREW during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 15 12 12 12 12 15 14 12 15 12 9 152

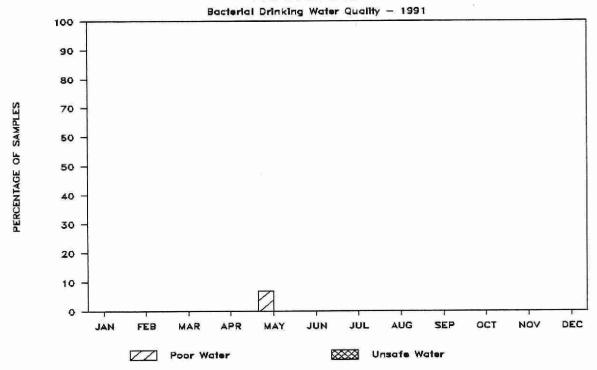
ROCKLAND

Bacterial Drinking Water Quality — 1991



PERCENTAGE OF SAFE SAMPLES

ROCKLAND



Number of samples submitted from ROCKLAND during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 20 20 20 29 21 26 20 21 27 20 15 260

RUSSELL TWP (EMBRUN)

Bacterial Drinking Water Quality – 1991

100

90

80

70

50

40

30

20

10

PERCENTAGE OF SAFE SAMPLES

0

FEB

RUSSELL TWP (EMBRUN)

JUN

APR

MAY

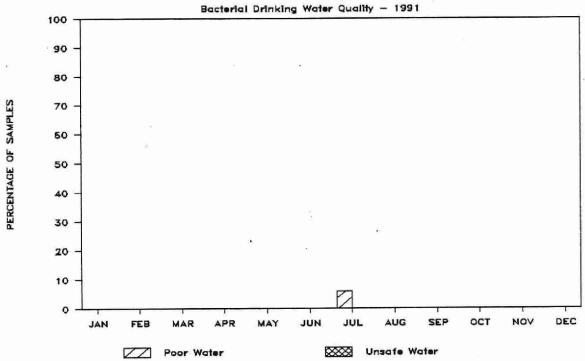
JUL

AUG

SEP

OCT

NOV

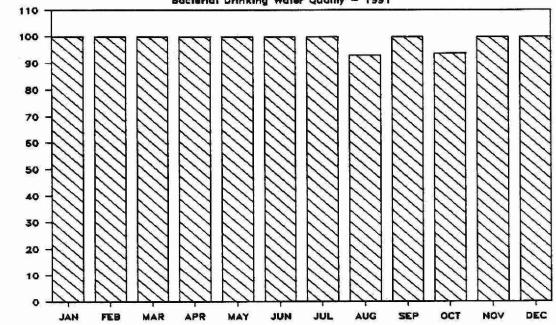


Number of samples submitted from RUSSELL TWP (EMBRUN) during 1991 for the analysis of treated water.

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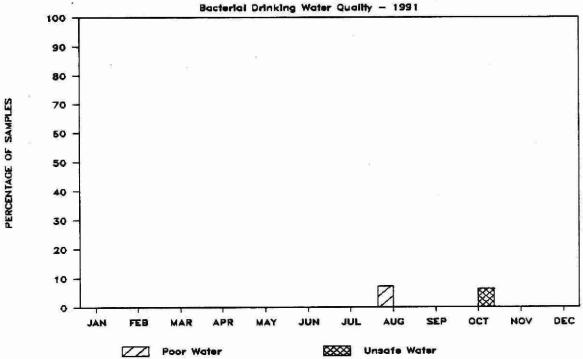
RUSSELL TWP (RUSSELL)

Bacterial Drinking Water Quality - 1991



PERCENTAGE OF SAFE SAMPLES

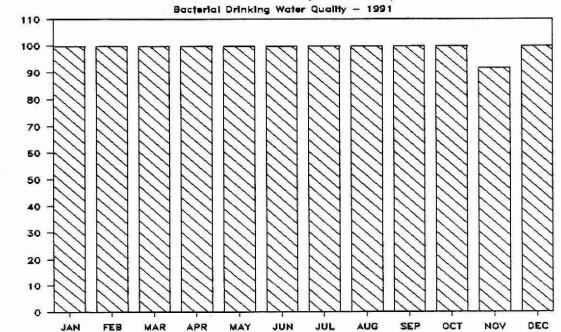
RUSSELL TWP (RUSSELL)



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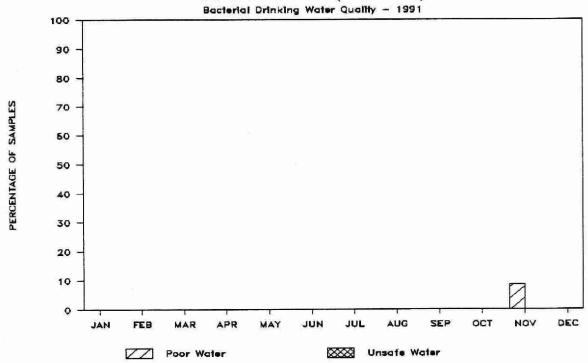
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 6 16 14 16 14 16 16 14 12 16 11 10 161

SIDNEY TWP (BATAWA)



PERCENTAGE OF SAFE SAMPLES

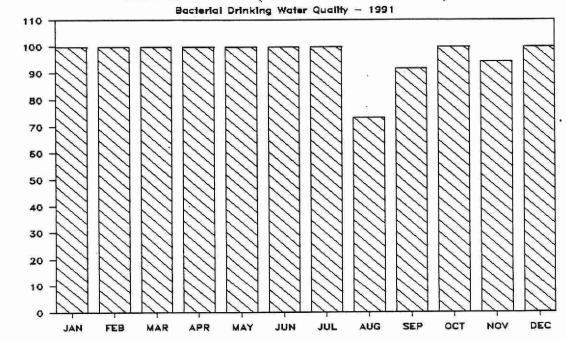
SIDNEY TWP (BATAWA)



Number of samples submitted from SIDNEY TWP (BATAWA) during 1991 for the analysis of treated water.

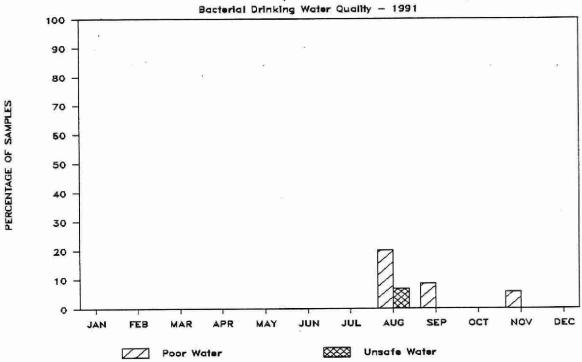
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL
12 12 9 12 15 12 9 12 15 12 9 141

SIDNEY TWP (BAYSIDE SCHOOL)



PERCENTAGE OF SAFE SAMPLES

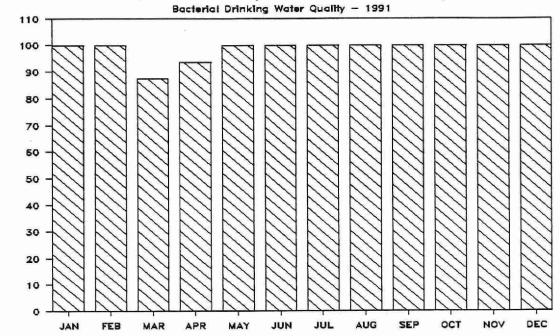
SIDNEY TWP (BAYSIDE SCHOOL)



Number of samples submitted from SIDNEY TWP (BAYSIDE SCHOOL) during 1991 for the analysis of treated water.

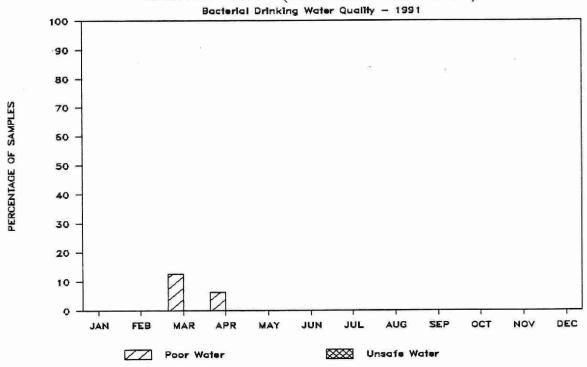
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SIDNEY TWP (BAYVIEW ESTATES)



PERCENTAGE OF SAFE SAMPLES

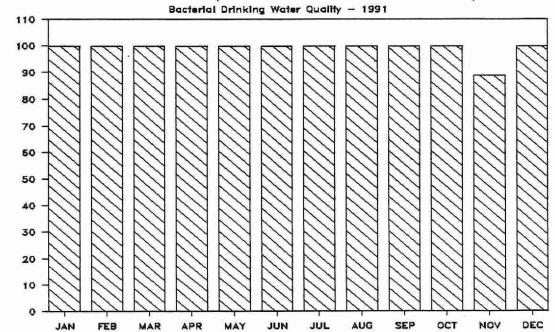
SIDNEY TWP (BAYVIEW ESTATES)



Number of samples submitted from SIDNEY TWP (BAYVIEW ESTATES) during 1991 for the analysis of treated water.

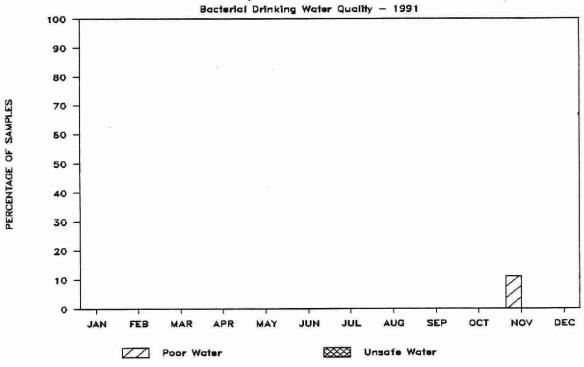
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 16 16 16 16 18 16 16 12 12 16 12 8 174

SIDNEY TWP (COUNTRY CLUB VILLAGE)



PERCENTAGE OF SAFE SAMPLES

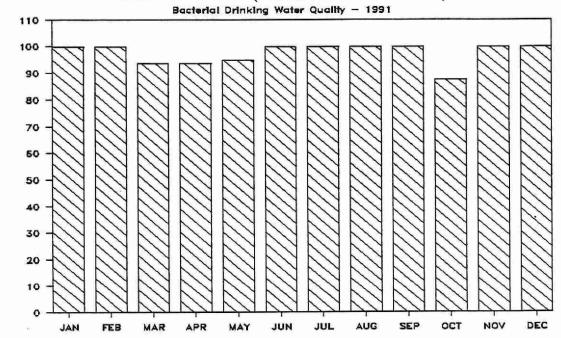
SIDNEY TWP (COUNTRY CLUB VILLAGE)



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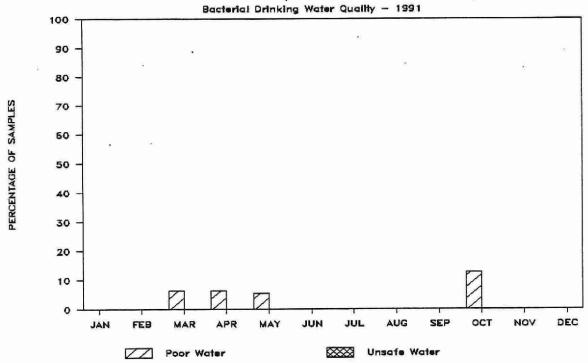
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 7 8 8 8 8 8 10 8 8 8 9 6 96

SIDNEY TWP (KENRON ESTATES)



PERCENTAGE OF SAFE SAMPLES

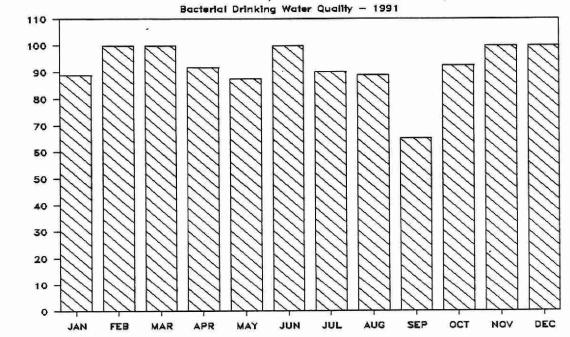
SIDNEY TWP (KENRON ESTATES)



Number of samples submitted from SIDNEY TWP (KENRON ESTATES) during 1991 for the analysis of treated water.

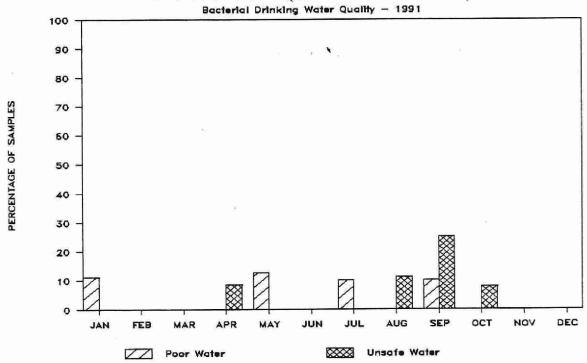
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 16 16 16 16 19 15 24 12 12 16 16 4 182

SIDNEY TWP (QUINTE HEIGHTS)



PERCENTAGE OF SAFE SAMPLES

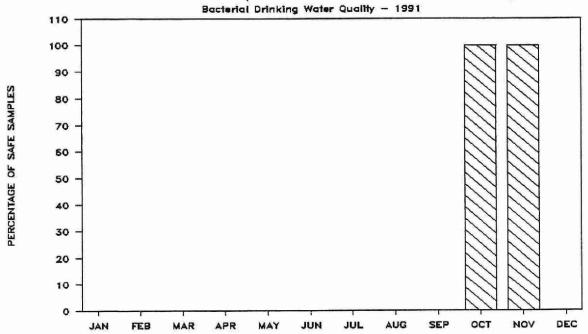
SIDNEY TWP (QUINTE HEIGHTS)



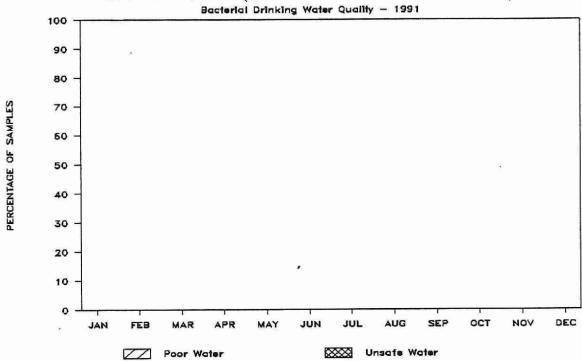
Number of samples submitted from SIDNEY TWP (QUINTE HEIGHTS) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 9 8 8 12 8 8 10 9 20 13 8 6 119

SIDNEY TWP (SUNNY CREEKS ESTATES)



SIDNEY TWP (SUNNY CREEKS ESTATES)

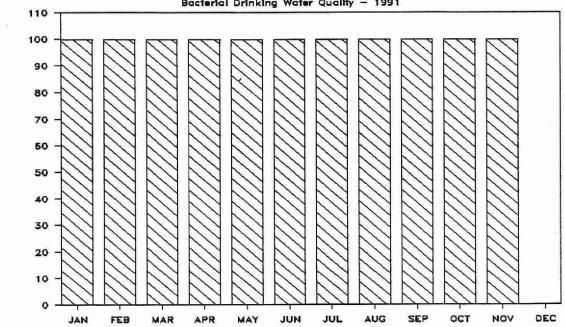


Number of samples submitted from SIDNEY TWP (SUNNY CREEK ESTATES) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 0 0 0 0 0 0 0 0 14 5 0 19

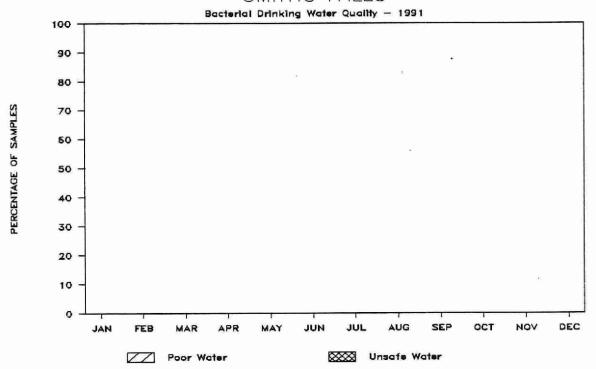
SMITHS FALLS

Bacterial Drinking Water Quality - 1991



PERCENTAGE OF SAFE SAMPLES

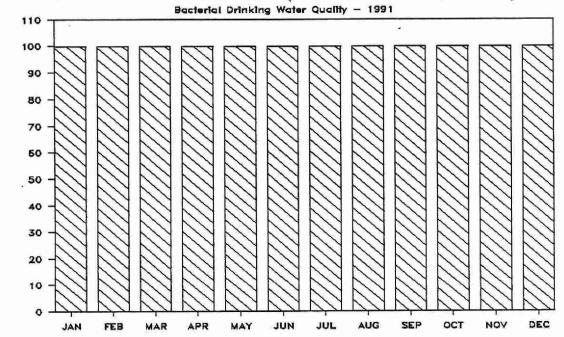
SMITHS FALLS



Number of samples submitted from SMITHS FALLS during 1991 for the analysis of treated water.

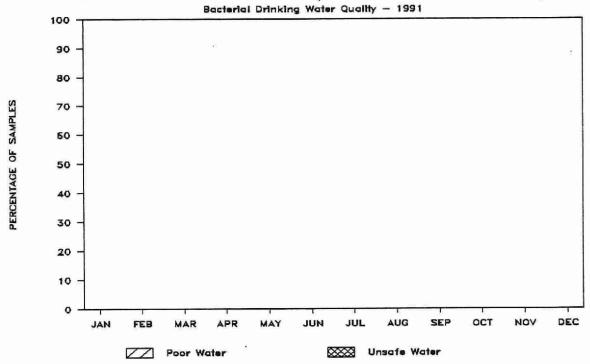
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 0

S FREDERICKSBURGH (SANDHURST SHORES)



PERCENTAGE OF SAFE SAMPLES

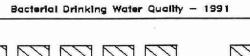
S FREDERICKSBURGH (SANDHURST SHORES)

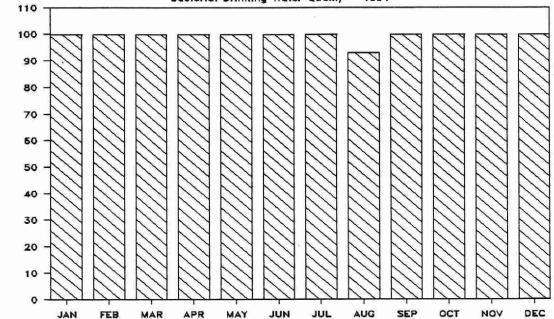


Number of samples submitted from S FREDERICKSBURGH (SANDHURST SHORES) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 9 12 12 15 11 12 15 9 12 15 12 6 140 81

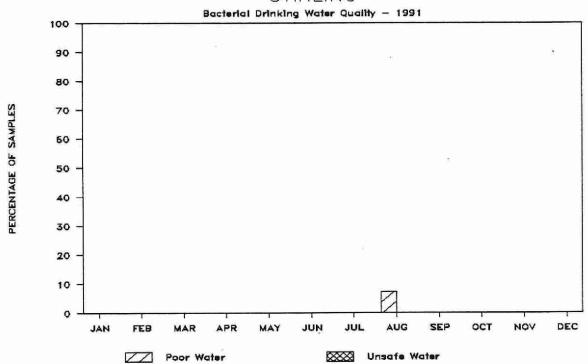
STIRLING





PERCENTAGE OF SAFE SAMPLES

STIRLING

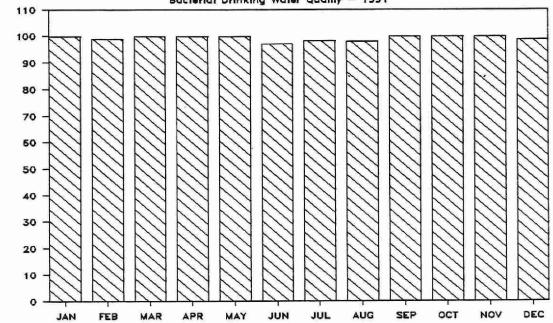


Number of samples submitted from STIRLING during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 12 10 6 12 13 8 12 14 12 15 12 5 131

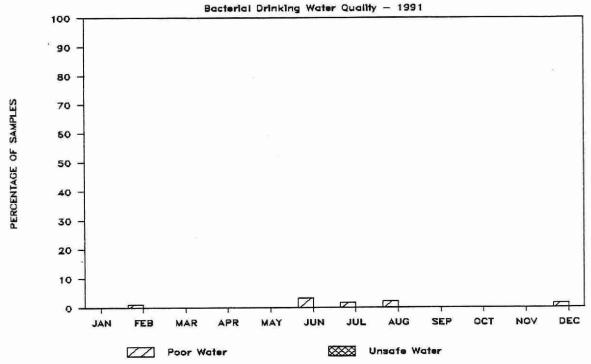
TRENTON (CITY)

Bacterial Drinking Water Quality - 1991



PERCENTAGE OF SAFE SAMPLES

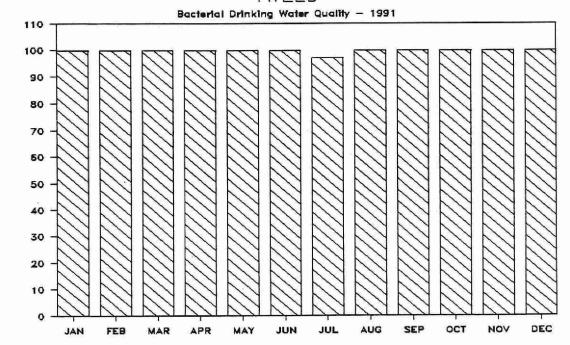




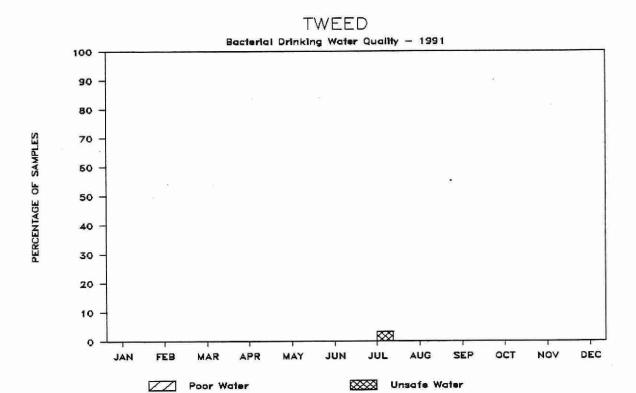
Number of samples submitted from TRENTON (CITY) during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 93 76 99 121 96 116 100 95 121 72 72 1147

TWEED



PERCENTAGE OF SAFE SAMPLES

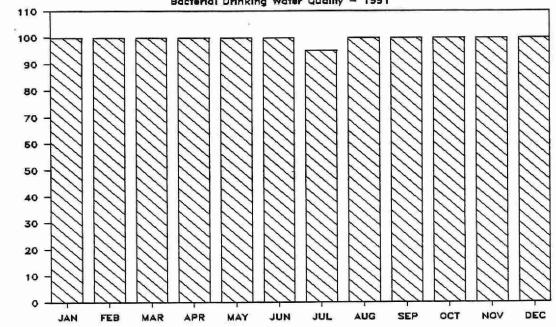


Number of samples submitted from TWEED during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 12 12 12 19 12 32 24 19 52 24 21 241

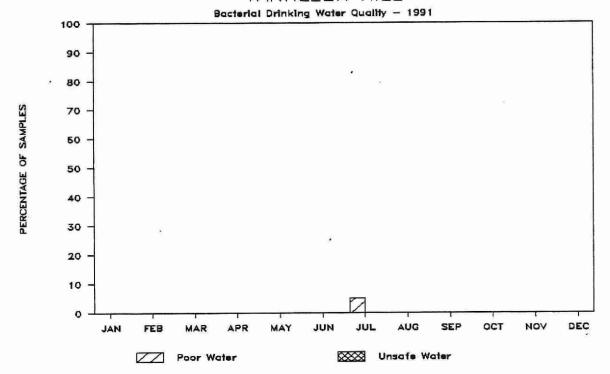
VANKLEEK HILL

Bacterial Drinking Water Quality - 1991



PERCENTAGE OF SAFE SAMPLES

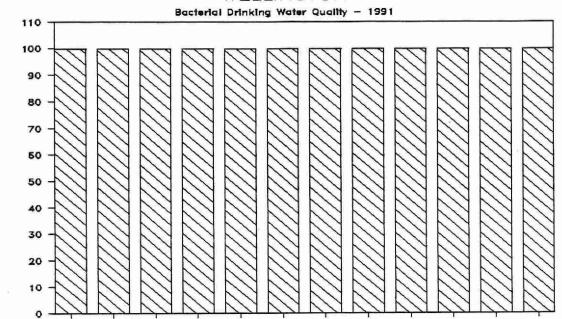
VANKLEEK HILL



Number of samples submitted from VANKLEEK HILL during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 32 32 28 35 32 33 40 34 30 39 32 24 391

WELLINGTON



PERCENTAGE OF SAFE SAMPLES

WELLINGTON

NUL

JUL

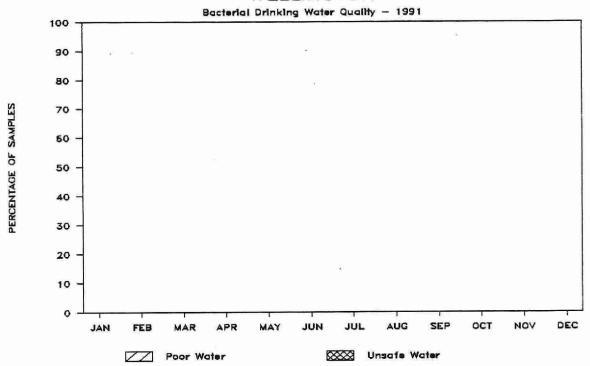
SEP

AUG

OCT

NOV

DEC

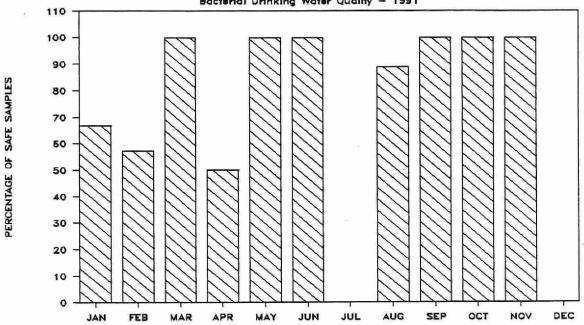


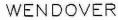
Number of samples submitted from WELLINGTON during 1991 for the analysis of treated water.

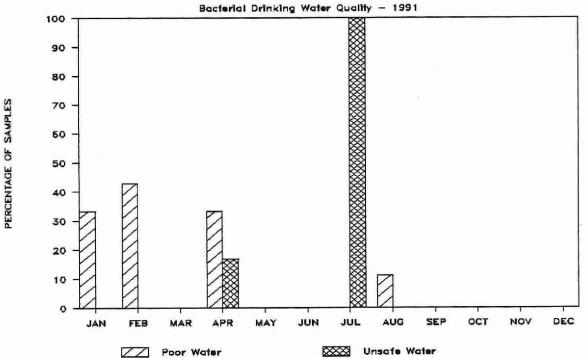
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 20 16 16 20 19 17 15 21 16 20 16 12 208

WENDOVER

Bacterial Drinking Water Quality - 1991



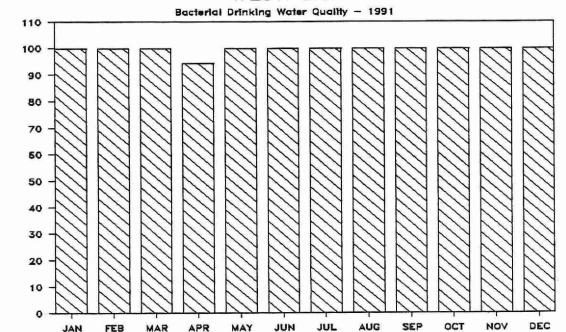




Number of samples submitted from WENDOVER during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 3 7 3 12 6 6 3 9 3 7 3 0 62

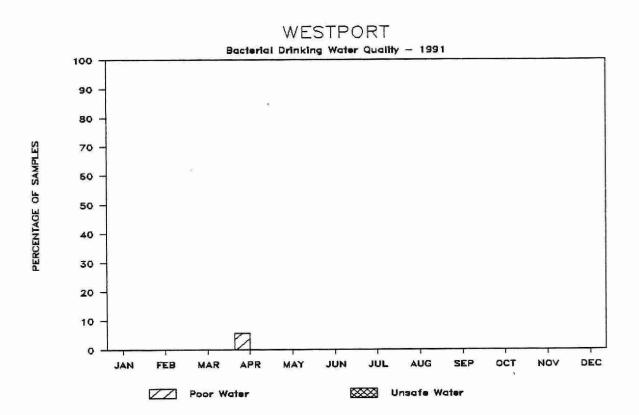
WESTPORT



PERCENTAGE OF SAFE SAMPLES

FEB

APR



Number of samples submitted from WESTPORT during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 12 12 18 14 9 16 13 13 15 12 10 159

WINCHESTER

110 100 90

80

70 50

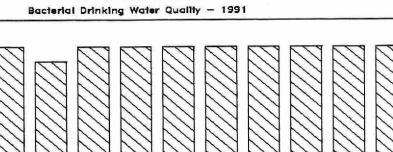
50

40 30

20

10

PERCENTAGE OF SAFE SAMPLES



AUG

SEP

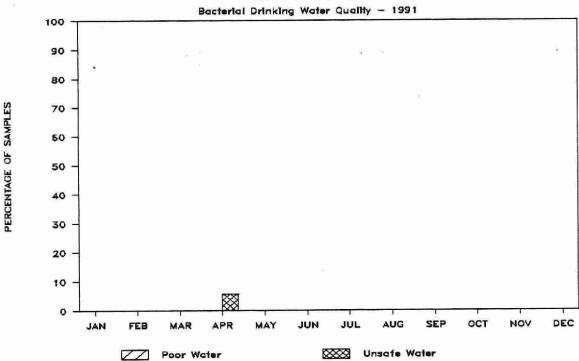
OCT

NOV

WINCHESTER

JUN

JUL



Number of samples submitted from WINCHESTER during 1991 for the analysis of treated water.

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL 32 32 32 36 42 24 41 32 32 40 32 24 399

DEC

(7103) TD/227/O57/B33/MOE